
November, 3rd 2011 (1st day)

8:30-9:30 Registration

9:30-9:40 Opening Ceremony (Room A) Chairperson: Seiichi SUDO (Akita Prefectural Univ.)

Koji MORI (President of the Japan Society for Experimental Mechanics,
Osaka Electro-Communication Univ.)

Hiroshi TAKAHASHI (Chairperson of Organizing Committee of 6th ISEM, Tohoku Univ.)

9:40 -10:40 Keynote Lecture 1 (Room A) Chairperson: Hiroshi TAKAHASHI (Tohoku Univ.)

Application of Electromagnetic Processing of Materials (EPM) to Aluminum Recycling Technology

Shoji TANIGUCHI and Shin-ichi SHIMASAKI

----- **Room A (Nov. 3, Thursday)** -----

10:50-12:10 Bubbly Flow

Chairpersons: *to be announced*

035 Mixing Time of a Cylindrical Bath Agitated by Gas Injection through an Off-centered L-shaped Top Lance,

Norifumi KOCHI and Manabu IGUCHI

046 Behavior of a Single Bubble Rising in a Vertical Pipe of Partially Different Wettabilities

Sho YOKOYAMA and Manabu IGUCHI

074 Experimental Study on Gas-Liquid Flow Distributions in Upward Multi-pass Channels - Comparison of Refrigerant Flow and Air-Water Flow -

Mohamad-Razlan ZURADZMAN, Hiroaki GOSHIMA, Koji TAKIGUCHI, Toshiaki TSUCHIYA,
Masaaki AJIMA, Motohide OKAMOTO, Yujiro KITAIDE, Masafumi HIROTA,
Naoki MARUYAMA and Akira NISHIMURA

104 Hollow Microcapsules Fabricated from Microbubbles Containing Cyanoacrylate Vapor

Toshinori MAKUTA, Yukina TAMAKAWA and Jun ENDO

13:10 -14:50 Fluid Engineering

Chairpersons: *to be announced*

040 Experimental Investigation and Numerical Computation of Fluid-Structure Interaction on Square-Section Cylinder with Elastic Surface Esmatullah Maiwand Sharify

Junnan LI, Hiroki SAITO, Shun TAKAHASHI and Norio ARAI

124 The Spatial Distribution of Rotational Temperatures for Nitrogen Molecules Behind Hypervelocity Shock Waves by CARS Measurement

Hima Bindu VENIGALLA, Shota NIINOMI, Masashi OGURO, Masanori OTA and Kazuo MAENO

139 Investigation on Drag Reduction Mechanism over Compliant Wall

Nobuyoshi FUJIMATSU and Isao MISU

141 Integral Representation of Low-Reynolds-Number Hydrodynamics (Study of Stokes' Paradox)

Yoshiaki UEDA and Manabu IGUCHI

150 Mixing Layer Control by Suction at Trailing Edge

Tzong-Shyng LEU

15:00-16:20 Flow Visualization

Chairpersons: *to be announced*

050 Flow Past a Square Prism with Cut-Corners (Effect of the Angle of Attack)

Yoshiaki UEDA, Mitsuo KURATA, Teruhiko KIDA and Manabu IGUCHI

091 An Experimental Investigation of the Formation and Transition of a Double Eyewall Vortex

Shih-Lin HUANG, Yin-Chung CHEN, Chin-Chou CHU and Chien C. CHANG

103 Three-dimensional Visualization of Hydrogen Bubble Method by Using Digital Holography

Yohsuke TANAKA, Yohsuke TANAKA, Kohta HITANI and Shigeru MURATA

114 Faraday Waves and Surface Flows in a Cylindrical Container

Koji MATSUMOTO, Shigeki INNAMI, Tetusya YANO, Muneo FUTAMURA and Seiichi SUDO

----- **Room B (Nov. 3, Thursday)** -----

10:50-12:10 Strength and Stress Analysis

Chairpersons: *to be announced*

001 Description of Anisotropy and Yield Differential Effects for AZ31 Mg sheet Using Cazacu 2004 Yield Criterion

Mohammad Omar ANDAR and Toshihiko KUWABARA

077 Effect of Tensile Deformation on Electroconductivity of Recycled Activated Carbon Composites

Takenobu SAKAI, Tomohiko GUSHIKEN, Jun KOYANAGI, Rolando RIOS-SOBERANIS, Tomoki MASUKO, Satoshi MATSUSHIMA, Satoshi KOBAYASHI, Satoru YONEYAMA and Shuichi WAKAYAMA

106 Fracture Prediction in Reinforced Concrete Using Mechanoluminescent Sensor

Chenshu LI, Chao-Nan XU, Daisuke ONO, Naohiro UENO and Yuichiro KAWABATA

121 Influence of Plastic Anisotropy on Compressive Forming Limit of AZ31 Magnesium Alloy

Ichiro SHIMIZU, Kousuke OKADA, Seiki HIRANO and Naoya TADA

13:10-14:50 Impact Behavior I

Chairpersons: *to be announced*

002 Impact Strength of Strip with a Single Inclined Notch

Kazufumi UDA

017 Evaluation of Dynamic Properties of PLLA/PBSL Polymer Blend Using Split Hopkinson Pressure Bar

Seiya KUNO, Masahiro NISHIDA, Ikuyo KAWASHIMA, Tetsuo TAKAYAMA and Mitsugu TODO

025 Effects of Projectile Material Properties on Crater and Ejecta Size of Thick Aluminum Alloy 6061-T6 Targets

Masahiro NISHIDA, Shinji YAMAMOTO, Koichi HAYASHI and Sunao HASEGAWA

147 Dynamic Behavior of a Circular Tube Subjected to High Impact Loading

Masahiro HIGUCHI, Yasuji HAMAGUCHI, Shun SUZUKI and Tadaharu ADACHI

148 Energy Absorption of Thin-Walled Circular Tube Filled with Syntactic Epoxy Foam Subjected to Axial Compression

Masahiro HIGUCHI, Takuma SAKA, Kenta FUJIMOTO and Tadaharu ADACHI

15:00-16:20 Evaluation, Inspection and Sensing I

Chairpersons: *to be announced*

008 Effect of Changing the Aspect Ratio of the Elastic Model of the Flexible Sensor for Three-axis Load Measurement on Normal Load and Shearing Load Measurement

Kang Ning TAN, Noboru NAKAYAMA, Hiroaki FUKUI, Sung-Moo SONG, Hiroyuku TAKEISHI and Takuya SUZUKI

- 013 Interference and Photoelastic Fringe Pattern Analysis Using Snapshot Imaging Polarimetry
Satoru YONEYAMA, Shuichi ARIKAWA and Yuji KUGIYAMA
- 071 Development of Novel Diffractive Optical Elements Using a Binary Fresnel Hologram
Shigeki NISHIDA and Yoshihiro OSHIDA
- 105 Development of Weight Scale Using MEMS Sensor Under Micro Gravity
Yohsuke TANAKA, Kohta HITANI and Shigeru MURATA

----- **Room C (Nov. 3, Thursday)** -----

10:50-12:10 Materials and Processing I

Chairpersons: *to be announced*

- 015 Vibration Effect on Agitating Torque by Soil Recycling Machine
Hiroshi TAKAHASHI, Dai NOJIRI and Tomoaki SATOMI
- 038 Composition Change in Al₃Ni₂ Microchannel Lining Layers by Alkali Leaching
Yusuke SAITOH, Tatsuya OHMI, Masatoshi SAKAIRI and Manabu IGUCHI
- 048 Fabrication of Free-Form Pipes Containing Microchannels from Metal-Powder Raw Materials
Yutaro SHITARA, Tatsuya OHMI and Manabu IGUCHI
- 138 Reduction Behavior of Phosphorus in Oxide Melt
Hideki ONO

13:10-14:50 Materials and Processing II

Chairpersons: *to be announced*

- 016 Study on Evaluation of Soil Strength Properties by Using the Resistive Force Acting on a Cutting Blade
Tomoaki SATOMI, Chen MIN and Hiroshi TAKAHASHI
- 041 Anodic Oxidation of Al-Zn Alloy Lining Layer Produced by a Sacrificial-Core Method
Masashi ISHIDA, Tatsuya OHMI, Masatoshi SAKAIRI and Manabu IGUCHI
- 051 Filtration of Ni-Al Alloy Containing By-Product Alumina Produced by Centrifugal Combustion Synthesis
Tatsuya OHMI and Manabu IGUCHI
- 119 Thermal Strain of the Soldering Product in Traditional Metalwork
Masaharu NISHINA, Gen SASAKI, Tetsushi KOSHINO, Takashi YOSHIKAWA,
Yuka TAKAI, Akihiko GOTO and Hiroyuki HAMADA
- 151 The New Friction Welding Method with Intermediate Friction Material
Ryoji TSUJINO, Kiyoshi MATSUURA and Takeshi HIGASHI

15:00-16:20 Biomechanics I

Chairpersons: *to be announced*

- 011 Evaluation of Skills in Batting Technique in Baseball using Acceleration Sensors
Satoru OKAMOTO
- 056 Stress Analysis on the Arch of the Foot Structure by Photoelasticity
Heizo KAJIWARA and Tsutomu EZUMI
- 086 Basic Study for Mechanical Testing of Bone
Yuichi ONO, Shuichi YAMAMOTO, Naohiro AKAO, Hisataka TANAKA and Toshio KAMINOU
- 113 Design and Manufacturing a New Knee Ankle Foot Orthosis (KAFO)
Kadhim K. Al-KINANI, Shaker SAKRAN, Ali JAWAD and Akeel M. HUSSEIN

November 4, 2011 (2nd day)

9:50-10:50 Keynote Lecture 2 (Room A) Chairperson: *to be announced*

Transport Phenomena and Materials Processing Focused Mainly on Sustainable Development in Ironmaking and Steelmaking

Tateo USUI, Hideki ONO, Hirokazu KONISHI, Hirotoshi KAWABATA

----- **Room A (Nov. 4, Friday)** -----

11:00-12:00 Flow Measurement I

Chairpersons: *to be announced*

057 Development of Ultrahigh Accuracy Constant-temperature Bath Shoichiro BABA / Japan Agency for Marine-Earth Science and technology

Tatsuro WAKIMOTO, Kenji KATHO, Jun TAMBA and Kazuaki YAMAZAWA

075 The Study of Vortical Structures and Spreading Characteristics on a Plane Jet Flow Under Long-Wave Excitations

Cheng-En LIU and Fei-Bin HSIAO

108 Calibration of Hot-Wire Probe at Low Velocity and Density of Flow

Vadim LEBIGA and Ivan GORODOV

13:00-14:20 Multiphase Flow I

Chairpersons: *to be announced*

029 Cold Model Study of Spout Eye Area with the Slag Layer Simulated by Low Density Particles

Asuka MARUYAMA and Manabu IGUCHI

049 Validation of Basic Models of Bubble Coalescence for Gas-liquid Dispersion in Column Reactor

Boris BOSHENYATOV

087 The Inactivation Effect for Microorganisms on Disinfection System Using Ozone Microbubbles

Generated by the Hollow Ultrasonic Horn

Nonoko SYUKUYA and Toshinori MAKUTA

129 Suppression of Disintegration of Fan Liquid Sheet by Surfactant

Tatsuro WAKIMOTO and Kenji KATOH

14:30-15:50 Environmental Fluid Flow

Chairpersons: *to be announced*

006 Wind Effect on Vibration and Scattering Behavior of Japanese Roofing Tile

Satoru OKAMOTO

007 Water Leak Phenomena of Japanese Tiled Roofs under Vibration and Scattering

Satoru OKAMOTO

010 Mathematical Modeling of Helium Enrichment from Natural Gas Processes with Low Content of Helium

A. F. FOMINA, A. S. VERESHCHAGIN and V. M. FOMIN

----- **Room B (Nov. 4, Friday)** -----

11:00-12:00 Heat and Mass Transfer I

Chairpersons: *to be announced*

005 Melting Behavior of a Rotating Ice Cylinder inside an Inclined Cylindrical Cavity Filled with a Binary Aqueous Solution

Yoshimi KOMATSU, Makoto TAGO and Masashi SATO

009 Development and Ground Test of an 1kW Arcjet System

Hou-YI LEE, Yueh-Heng LI, Guan-Bang CHEN and Yei-Chin CHAO

023 Magnetically-Driven Heat Transport Device Using Ferrofluid

Yuhiro IWAMOTO, Xiao-Dong NIU, Hiroshi YAMAGUCHI, Haruhiko YAMASAKI and Takuya KUWAHARA

13:00-14:20 Micro Flow and Surface Phenomena

Chairpersons: *to be announced*

036 Characteristics of Poorly Wetted Two Spheres Penetrating into a Water Bath

Yusuke SAKAI and Manabu IGUCHI

043 A Power-Free Microfluidic Pumping Device Utilizing Super-Hydrophobic Silicon Grass

Chun-Fei KUNG, Yu-Chen SHU, Chien-Cheng CHANG and Chin-Chou CHU

089 Spontaneous Dropping of Liquid Column in a Tilted Capillary Pipe with an Upper Lid

Kenji KATOH and Tatsuro WAKIMOTO

118 Vibration Characteristics of Liquid Bridge between Sphere and a Solid Base subject to Vertical Vibration

Seiichi SUDO, Shigeki INNAMI and Koji MATSMOTO

14:30-15:50 Flow Transition

Chairpersons: *to be announced*

026 Experimental Investigation of Aerodynamic Transition and Velocity Field at Low Reynolds Numbers

Yi TENG, Yi-Chung LIU and Fei-Bin HSIAO

045 An Experimental Study on the Growth of Disturbances in the Developing Region of a Pulsating Pipeflow

J. J. MIAU and H. LIU

052 Initial Unsteadiness Effect on Transition to Turbulence in Constant Acceleration Pipe Flow

Kazuyoshi NISHIHARA, Hisanori SAKA, Yoshiaki UEDA, Hirofumi OYOYABU and Manabu IGUCHI

----- **Room C (Nov. 4, Friday)** -----

13:00-14:20 Evaluation, Inspection and Sensing II

Chairpersons: *to be announced*

058 Piezoelectric Cable Composites for Application in Electrical Power Generation

Matthew SILLETO and Kazuo ARAKAWA

110 Robot Navigation using Polarized Light Sensor without Crossed-analyzer

Yoshiyuki HIGASHI, Hiroaki TOKUAMI and Hiroshi KIMURA

115 Development of Shape Measurement System Using Mirrors for Metallic Objects

Motoharu FUJIGAKI, Shingo MATSUMOTO, Akihiro MASAYA and Yoshiharu MORIMOTO

127 Nonlinear Response of the Vehicle-Track-Bridge Interaction for High-Speed Trains

Ren-Zuo WANG, Chung-Yue WANG, Jou-Yi SHIH and Bin-Chang LIN

14:30-15:50 Biomechanics II

Chairpersons: *to be announced*

047 Displacement Analysis of Living Human Tooth by X-ray CT-images and Coordinate Transformation Method

Kazuo ARAKAWA

090 The Role of Mechanical Stretching During Skeletal Muscle Organogenesis

Mirei CHIBA and Haruhide HAYASHI

092 Expressions of Osteoblast Differentiation Genes in Mouse Calvaria Derived MC3T3-E1 Cells Cultured in Micro-Space

Ryosuke MIYAI, Mirei CHIBA and Haruhide HAYASHI

093 Wear Characteristics of Ultra High Molecular Weight Polyethylene (UHMWPE) in Cyclic Impingement Test

Tomoya CHIBA, Yuta SHIMUR, Yuji TANABE and Hirotsugu OHASHI

November 5, 2011 (3rd day)

14:00-15:00 Keynote Lecture 3 (Room A) Chairperson: Hiroshi TAKAHASHI (Tohoku Univ.)

Edwan KARDENA (Institute of Technology Bandung, Indonesia)

-----**Room A (Nov. 5, Saturday)**-----

9:30-10:30 Flow Measurement II

Chairpersons: *to be announced*

130 Measurement of Interfacial Tension Based on a Floating Droplet Profile on a Liquid

Masashi NAKAMOTO, Toshihiro TANAKA and Takaiku YAMAMOTO

136 PIV Measurement of Unsteady Flow Field above an Airfoil Pitching at Different Waveform Conditions

R. M. YU, T. S. LEU, C. C. HU, J. J. MIAU, Y. D. TSAI, S. Y. LIANG S. J. CHEN and J. C. CHENG

142 Improved Volumetric Reconstruction Scheme for Particle Tracking Velocimetry Based On Multiple Projections

Basanta JOSHI, Kazuo OHMI and Kazuo NOSE

15:10-16:35 Multiphase Flow II

Chairpersons: *to be announced*

014 Study on Development of New Equipment to Recycle the Waste Asphalt Blocks Containing Roadbed Materials

Hiroshi TAKAHASHI, Shota AOKI and Tomoaki SATOMI

082 Error of Optical Measurement on Dispersed Two-Phase Flow

Yuji ITAMOTO and Hideaki MONJI

102 Yield Improvement and Durability Enhancement of Hollow Microcapsule Fabricated by Bubble Template Method

Yukina TAMAKAWA and Toshinori MAKUTA

137 Experimental Assessment of the Gas/Liquid Transport Performance of the Rotating Porous Disc

Tetsuya YANO, Kiyohiro KATO and Seiichi SUDO

-----**Room B (Nov. 5, Saturday)**-----

9:30-10:30 Heat and Mass Transfer II

Chairpersons: *to be announced*

004 Heat Transfer Performance of a Self-Oscillating Heat Pipe Using Alumina (Al₂O₃) Nanofluid

Dao Danh TUNG and ShuiChi TORII

100 Quantitative Measurement of Natural Convection from Multiple Heat Sources Using Color-Stripe Background Oriented Schlieren (CSBOS) CT Method

Muhammad Falak ZEB, Masanory OTA and Kazuo MAENO

116 Characteristics of Laminar Lifted Flames in CO₂/O₂ Coflow Jets

Yueh-Heng LI, Guan-Bang CHEN and Yei-Chin CHAO

15:10-16:35 Impact Behavior II

Chairpersons: *to be announced*

143 Impact Analysis and Experiment Test for Carbon Fiber Composite Plate with Central Hole

(Invited Presentation)

Gwo-Chung TSAI

073 High Strain-Rate Compressive Response of Bulk Epoxy Adhesives under Nearly Uniaxial Strain Conditions

Takashi YOKOYAMA, Kenji NAKAI and Norfazrina Hayati M.Y.

111 Dynamic Tensile Properties of Nuclear-Grade Graphite IG-11

Kenji NAKAI and Takashi YOKOYAMA

145 High Strain-Rate Dynamic Stress-Strain Relationship for Eutectic Sn-Pb37 and Unleaded SAC305 Solder Alloy Materials at Elevated Temperature Conditions

Syh-Tsang JENQ, Yuen-Sheng CHIU, Ren-Jey LIN and Yi-Shao LAI

-----Room C (Nov. 5, Saturday)-----

9:30-10:30 Evaluation, Inspection and Sensing III

Chairpersons: *to be announced*

133 Dynamic Deformation Measurement by Windowed Digital Holographic Interferometry

Ryosuke GOTO and Motoharu FUJIHAKI

144 Propagation Properties of Guided Wave Transmitted Through Stem of Miniature Tomato

Kensuke KAGEYAMA and Toshikazu KURITA

146 Residual Stress Measurement of Light Bulb for Automobiles by Phase-Shifting Photoelasticity

Shinichi SUZUKI, Shohei NISHIKITA and Taiga MURAI

15:10-16:35 Materials and Processing III

Chairpersons: *to be announced*

037 Structure Control of Cu-Zn Microchannel Lining Layers with Potentiostatic Dissolution

Kazuki KOBAYASHI, Tatsuya OHMI, Masatoshi SAKAIRI and Manabu IGUCHI

055 Production and Properties of Glass-ceramics with Wollastonite Crystal from Industrial Wastes

Kiyohiko IKEDA, Hiroyuki KINOSHITA, Ryuusuke KAWAMURA, Akira YOSHIKAWA, Osami KOBORI and Akira HIRATSUKA

131 Thermodynamic Property of the Fe-Cu-Ag-B System at 1523 and 1873 K

Katsuhiro YAMAGUCHI, Hideki ONO, Shingo AGAWA and Tateo USUI

132 Separation of Dy by Molten Salt Electrochemical Process

Hirokazu KONISHI, Hideki ONO, Tetsuo OISHI and Toshiyuki NOHIRA

10:40-13:00 Poster Session

1. General presentation

012 Heat Balance Calculations in a New Fluidized Bed Gasifier

Takahiro MURAKAMI, Minoru ASAI and Yoshizo SUZUKI

018 Study on Gasification Characteristics of Waste Wood Chips

Koji MORI and Haruo SOEDA

027 Analysis of Dielectrophoretic force acting on particles in minichannel

Kota SUZUKI, Hiromichi OBARA, JeEun CHOI and Masahiro TAKEI

028 Compressive Deformation Behavior of Expanded Polymer Rib Structure

Hiroyuki YAMADA, Nagahisa OGASAWARA, Takahiro MINAGAWA, Shigenori OKA and Yukinori KOBAYASHI

- 039 Effect of Chemical Composition on Hydrogen Embrittlement of High Tensile Steel
Mariko NAKAMURA, Hiroyuki SAITO and Takashi SAWADA
- 042 Mechanical Effects of Micro-thread Design in Relation to Artificial Cortical Bone Thickness of Orthodontic Mini-screw
Chun-Li LIN, Yang-Sung LIN, Jian-HONGYU and Yau-Zen CHAG
- 076 Flow and Thermal Analysis of Ultraviolet-Curable Resin during Curing Process
Hiroaki ISHIBASHI, Ryo ODAGIRI and Eisaku UMEZAKI
- 080 Influences of Tube Length Sunk under Water Surface and Water Depth on the Sound Generated from Air-Bubbles
Takashi TODAKA, Teruaki NAGASE, Yoshito OHUCHI and Yoichi NAKAZONO
- 094 Finite Element Analysis of Movement of Lower Jaw Molars Using Implant Anchor
Yoshinori TOMIZUKA Eisaku UMEZAKI Shigeyuki MATSUI Daigo KOMAZAWA and Naoto SUDA
- 109 Accurate Detection of Depth Information from Digital Hologram Using Two-wavelength Reconstruction
Shigeru MURATA and Yohsuke TANAKA
- 117 Acquisition and Materialization of Three Dimensional Shape of Marine Plankton Using Micro X-ray Tomography
Naoko KISHIMOTO, Naoto ISHIDA, Atsushi MATSUOKA, Toshiyuki KURIHARA, Katsunori KIMOTO and Takashi YOSHINO
- 126 Friction Properties of SiC Film at Reduced Pressures
Masahiko KATO, Kohei KUROSE, Hiroyuki AKEBONO and Atsushi SUGETA
- 128 Application of Acoustoelastic Stress Measurement System Using a Grazing SH-Wave Sensor to Actual Constructions
Yoshihiko HASHIMOTO, Yorinobu MURATA, Masami IKESHITA and Hiroki TODA
- 149 Water Model Experiment on the Entrapment of Slag using Polymerization
Manabu IGUCHI, Yutaka SUMIDA, Koji MORI, Tatsuya OHMI, Yoshiaki UEDA and Keiji NAKAJIMA

2. Special presentation by students of technical high school and college of technology: S01-SXX

Awarding Celemony (12:45-13:00)

- S01 An Approach by Our Science Club Aiming for the National Award at CanSat KOSHIEN
Tomoya MATOBA, Tomoyasu NAGAKAWA, Tomoaki SHIMADA and Ikuhisa FUJIKI
(Wakayama Prefectural Toin High School)
- S02 Production of Touchable Replicas of Cultural Treasures Using the 3D Tools
Yuya OKADA, Yusuke KAMEI, Shinnosuke SAKAUE, Tsuyoshi SUMI, Takuya HIGASHINO, Shunsuke FUJII, Miyu MATSUMOTO and Seiji TAKAMOTO
(Wakayama Technical High School)
- S03 Design and Development of the Super Energy-Saving Competition Vehicle
Noriaki KUMAMOTO, Tomohiro BOUNO, Kiichi KITAYAMA, Keita MICHINE, Kimitoshi KAWAGUCHI, and Yoshio YABUSHITA
(Kihoku Technical High School)
- S04 The Creation Conditions and Performance of a Dye Sensitizing Photoelectric Cell
Tomoki YUKAWA and Mami NISHI
(Wakayama Prefectural Kainan High School)

- S05 The Challenge to Cansat Koshien 2011
Atsuhide OSAKI, Sadayoshi TAKAI, Togo HASHIDUME and Sohei KISHIDA
(Wakayama Prefectural Kainan High School)
- S06 Experienced Kansai Tournament WRO JAPAN 2011
Hideya KITAYAMA, Yuki HOSHIHARA, Kosuke NAKAMATSU, Yusei KITAGAKI, Naotaka BITO,
Syo TANAKA, Yuki DEJIMA, Naoki MAEDA, Satsuki TANAKA, Keiya MASUDA, Takumi HAIKI,
Junko YAMAGUCHI and Takeyoshi AGATA
(Wakayama Prefectural Koyo High School)
- S07 Phylogenetic Analysis of Citrus Using CIRE1 Retrotransposon
Nao SINGYO, Mao URAKAWA, Hazuki NAKANO, Asami HIRANO, Chizuru OKA,
Kana SUGIHAR, Tsukasa SUZUKI, Takeyoshi AGATA and Junko YAMAGUCHI
(Wakayama Prefectural Koyo High School)
- S08 Small Model Tests on Anti-Seismic Reinforcements for Soil Structures
Shunki KITAGUCHI, Masahiro TAKETANI and Yasuyuki NABESHIMA
(Akashi National College of Technology)
- S09
Yuya SAKAGUCHI, Shoichi HORIUCHI and Katsuya KUGAI
(Kinki University Technical College)
- S10
Takahiro YAMAMOTO, Hideki YAMAGUCHI and Katsuya KUGAI
(Kinki University Technical College)
- S11 Hot Ductility of Al-Mg Alloy for Automotive Body Sheet
Hideyuki KASAI, Tomoya SHIRAKAWA and Tsutomu ITO
(Kagawa National College of Technology)
- S12 Flame Behavior and Stability on Radial Horizontal Jet Diffusion Flame for Various Species of Gas
Fuel
Ryuji TAKASHIMA, Koji IDEGUCHI, Yuki HARA, Kentaro TAKATERE, Kenta YANO and
Takamitsu YOSHIMOTO
(Kobe City College of Technology)
- S13 Characteristics of Frictional Pressure Drop by Microbubble in Horizontal Channel
Aina SHINKAI, Yoichi MAEDA, Takayuki SUZUKI and Hideaki SHAKUTSUI
(Kobe City College of Technology)
- S14 Proposal for Soil Cleanup System by Remote Controlled Robots
Keisuke YAMANAKA and Tomoharu DOI
(Osaka Prefecture University College of Technology)
- S15 Mechanical Properties of Obi-Sugi Treated Hot-Pressing
Takahiro KAWABATA, Toshinobu TOYOHIRO, Akihiro TAKAHASHI and Naoyuki YAMAMOTO
(Miyakononojo National College of Technology)
- S16 Tensile Characteristics on Bamboo Fiber at Elevated Temperatures
Daiki MORI, Akihiro TAKAHASHI, Naoyuki YAMAMOTO, Toshiki HIGASHI and
Toshinobu TOYOHIRO
(Miyakononojo National College of Technology)
- S17 Mechanical Properties on Pure Fe Fabricated by Severe Plastic Deformation
Ryuta ARISHIMA, Tomoya UCHIMURA, Toshiki HIGASHI, Akihiko TAKAHASHI,
Naoyuki YAMAMOTO, Toshinobu TOYOHIRO and Yoshikazu TODAKA
(Miyakononojo National College of Technology)

S18 Experimental Development of Spatter Antiadhesive Agent on Shielding Metal Arc Welding made of Foodstuffs and Natural Products

Toshiki HIGASHI, Akihiro TAKAHASHI, Naoyuki YAMAMOTO, Toshinobu TOYOHIRO, Katsuo TAIRA and Hideyo KUBOTA

(Miyakonojo National College of Technology)

S19 Experimental Study on Heat Transfer Characteristics of Magnetic Fluid Heatpipe

Kesyu SUGIMOTO and Hiroyuki SHIRAIWA

(Miyakonojo National College of Technology)

S20 An Application of AE Sensors for Failure Diagnosis

Hiroyuki MATSUSHITA, Tuguo HAMADA, Hideo TOYA and Toshifumi YUJI

(Miyakonojo National College of Technology)

16:45-16:55 Closing Address (Room A)

Chairperson: *to be announced*