

ISCI 14 1st Day (December 1th, 2018)

10:00-10:20	Opening Session		
	Lecture Hall		
	Short Break & Preparation		
10:35-11:50	Oral Session 1		
	Group Study room on the second floor in Library		
	Room 1	Room 2	Room 3
10:35-10:50	OA-01	OSE-06	OA-02
	<p>Cover crops and no-tillage system for enhancing soil health by increasing soil organic matter in soybean cultivation</p> <p>○Heppy Suci Wulanningtyas*, Masakazu Komatsuzaki**</p> <p><i>*Ibaraki University, Indonesian Agency for Agricultural Research and Development, ** Center for International Field Agriculture Research & Education Ibaraki University</i></p>	<p>Research and Development of Broadband Fast Switching Device of High-Power Millimeter Wave</p> <p>○Hiroki Shozu*, Fumiaki Inoue*, Kana Yokoyama*, Mikio Saigusa*, Yasuhisa Oda**, Ryosuke Ikeda**, Koji Takahashi**</p> <p><i>*College of Engineering, Ibaraki University, Hitachi, Ibaraki 316-8511, Japan, **Quantum and Radiological Science and Technology, Naka, Ibaraki 311-0193, Japan</i></p>	<p>MOLECULAR IDENTIFICATION OF FUNGI THE CAUSAL AGENT OF STRAWBERRY (<i>Fragaria spp.</i>) WILT DISEASE IN BALI</p> <p>○I Wayan Diksa Gargita*, GN Alit Susanta Wirya**, I Putu Sudiarta***</p> <p><i>*Agricultural Biotechnology, Faculty of Agriculture of Udayana University, **Department of Plant Protection, Faculty of Agriculture, Udayana University, ***Department of Plant Protection, Faculty of Agriculture, Udayana University.</i></p>
10:50-11:05	OSE-07	OA-03	OSE-08
	<p>Fast similarity calculation between images for realtime photomosaic generation</p> <p>○Takahiro Ishii*, Nobuyuki Umezu**</p> <p><i>*Mechanical Systems Engineering, Sci. and Eng., Ibaraki University</i></p>	<p>Morphological and Molecular Characterization of <i>Aschersonia</i> sp. Associated With Whitefly on Citrus and Mulberry Plants</p> <p>○I Putu Wirya Suputra*, I Putu Sudiarta**, G.N. Alit Susanta Wirya**</p> <p><i>*Magister of Biotechnology, Udayana University, **Faculty of Agriculture, Udayana University</i></p>	<p>Development of a smart mirror with life log functions and its evaluation</p> <p>○Misaki Tani*, Nobuyuki Umezu**</p> <p><i>*Intelligent Systems Engineering, Graduate School of Sci. and Eng., Ibaraki University</i></p>
11:05-11:20	OA-04	OSE-09	OSE-01
	<p>Identification of Pathogen that Cause Bacteria Wilt Disease to <i>Eucalyptus</i> sp. in Pulp and Paper Mill in Indonesia</p>	<p>Keyboard learning support using mirrored video</p>	<p>The Effect of Hydrogen Peroxide on Hydrogen Production from Melon Fruit (<i>Cucumis melo</i> L.) Waste by Biogas Digester Microbes</p>

	<p>○Felix</p> <p><i>Department of Microbiology, Faculty of Agriculture, Gadjah Mada University, Yogyakarta, Indonesia</i></p>	<p>○Taisuke Nemoto*, Nobuyuki Umezu**</p> <p><i>*Mechanical Systems Engineering, Sci. and Eng., Ibaraki University</i></p>	<p>○Agung Dian Kharisma*, Sarto**, M. Nur Cahyanto***</p> <p><i>*Research Center of Biotechnology, The Graduate School of Gadjah Mada University, **Departement of Chemical Engineering, Faculty of Engineering, Gadjah Mada University, ***Department of Food Technology and FoodCrops, Faculty of Agriculture Technology, Gadjah Mada University</i></p>
11:20-11:35	OSE-10	OSE-02	OSE-11
	<p>Development of a web-based rating system for slide visibility and its evaluation</p>	<p>Chromate reduction by indigenous bacteria from liquid waste laboratory of UIN Sunan Kalijaga Yogyakarta</p>	<p>Band diagram analysis of arsenic tantalum</p>
	<p>○Genki Sugawara*, Nobuyuki Umezu**</p> <p><i>*Intelligent Systems Engineering, Graduate School of Sci. and Eng., Ibaraki University</i></p>	<p>○Ahmad Arsyadi*, Jumailatus Solihah* and Arifah Khusnuryani*</p> <p><i>*Departement of Science and Technology, State Islamic University of Sunan Kalijaga, Yogyakarta, Indonesia</i></p>	<p>○Masahisa Takizawa and Tomosuke Aono.</p> <p><i>*College of Engineering. Ibaraki University</i></p>
11:35-11:50	OSE-03	OSE-05	
	<p>Morphological comparison of the salivary glands in the scorpionflies in relation to mating behavior</p>	<p>Fish species composition and diversity variations in Kala Oya river basin, Sri Lanka with relation to environmental factors</p>	
	<p>○Hiroki KONNO</p> <p><i>Graduate School of Science and Engineering, Ibaraki University</i></p>	<p>○T.A. Hangawatta*, D.D.G.L. Dahanayaka</p> <p><i>Department of Zoology, The Open University of Sri Lanka, P.O.Box 21, Nawala, Nugegoda, 10250, Sri Lanka</i></p>	
Lunch Time			
13:00-13:30	<p>Oral Session 2</p> <p>Group Study room on the second floor in Library</p>		
	Room 1	Room 2	Room 3

13:00-13:15	OSE-13	OA-05	OSE-04
	Visualization of Hydrogen Behavior in a Duplex Stainless Steel by Hydrogen Microprint Technique Affected by Different Strain Rates	Investigation of possible use of predicting gross energy in Ecofeed and the materials by NIRS	Zoogeographical characteristics of the social wasp fauna of Sulawesi Island, Indonesia
	○Zoha Ghorani*, Afshin Yousefi**, Goroh ITOH** <i>*Graduate School of Science and Engineering, Ibaraki University **Department of Mechanical Engineering, College of Engineering, Ibaraki University</i>	○Ayumu Doi*, Eizo Taira*, Yoshimi Imura* <i>*University of the Ryukyus, faculty of agriculture</i>	○ Alan Handru* <i>*Graduate School of Science and Engineering, Ibaraki University</i>
13:15-13:30	OSE-14	OSE-12	OSE-15
	Features suitable for video thumbnails on portable devices	Development of Au-Immobilized Quantum Dots/Silica Core-Shell Nanoparticles for Multimodal Imaging	Development of novel DNA damage monitoring system using PDMS micro fluidic chip
	○Yusuke Yoneda*, Nobuyuki Umezu** <i>*Mechanical Systems Engineering, Sci. and Eng., Ibaraki University</i>	○Mayu Tayama*, Kouichi Nakashima*, Keiichiro Hatoyama**, Masayuki Tokunaga**, Takashi Kamei**, Kohsuke Gonda**, Yoshio Kobayashi* <i>* Hitachi Campus, Ibaraki University, ** Graduate School of Medicine, Tohoku University</i>	○Kenta Takahashi*, Takahiro Tamura**, Takaaki Suzuki**, Asako J. Nakamura*, <i>*Department of Biological Sciences, College of Science, Ibaraki University, Mito, Ibaraki, Japan **School of Science and Technology, Gunma University, Kiryu, Gunma, Japan</i>
Short Break			
14:00-14:50	Poster Session (P-01 ~ P-15)		
Short Break			
14:55-15:45	Poster Session (P-16 ~ P-30)		
Short Break			
15:50-16:40	Poster Session (P-31 ~ P-35 and WC students)		
Short Break			
17:00-19:00	Welcome Party University Cafeteria		

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Poster Session Program

- P-01 **Study on Thermo-physical Properties of Several Fatty Acids and Their Mixture for Multi Stage Heat Exchange System**
○Asuka Sakamoto*, Yu Ijima*, Yanrong Li**, Terumi Inagaki**
**Graduate School of Science and Engineering, Ibaraki University, **College of Engineering, Ibaraki University*
- P-02 **Special Needs Education in Japan and Inclusive Education**
○Sota Sebata*
**Tokiwa University-High School*
- P-03 **Experimental Evaluation of Effect Flowing Conditions on Cavitation Bubble Growing and Collapsing Behaviors**
○Shunsuke KAWAMURA*, Takashi NAOE**, Tsubasa IKEDA*, Nobuatsu TANAKA*, Masatoshi FUTAKAWA**
**Graduate School of Science and Engineering, Ibaraki University, Hitachi 316-8511, Japan, ** J-PARC Center, Japan Atomic Energy Agency, Tokai 319-1106, Japan*
- P-04 **Recalling neuronal ensembles by astrocyte network via synchronization of local ambient GABA levels**
○Taira Kobayashi, Osamu Hoshino
Department of Intelligent Systems Engineering, Ibaraki University, 4-12-1, Nakanarusawa, Hitachi, Ibaraki, 316-8511, Japan
- P-05 **Development of Methods for Synthesizing Metallic Ni Nanoparticles and Silica-Coating of Them**
○Airi Tago, Yoshio Kobayashi
Hitachi Campus, Ibaraki University
- P-06 **Effect of Maximum Particle Size of Crushed Shell Particles on Triaxial Compression Behavior at Constant Relative Density**
○Ryota Morizaki*, Kaoru Kobayashi**, Tadao Enomoto***, Kazuya Yasuhara****
Ibaraki University
- P-07 **A Study on the Declining Birthrate and Aging in the Northern Part of Ibaraki Prefecture**
Kana Okada, Haruka Sano, Ayaka Watahiki
Tokiwa University-High School
- P-08 **Mapping abandoned agricultural land using satellite remote sensing**
○Yoshihiko Kobayashi *, Tsuguki Kinoshita **
** **College of Agriculture, Ibaraki University, Chuo, Ami, Inashiki, Ibaraki 300-0393*

- P-09 **Development of Resin Ball Grinding Wheel using PELID**
 ○Hiroki SAITO*, Nobuhide ITOH*, Katsufumi INAZAWA*, Hitoshi OHMORI**and Shinjiro UMEZU***
 *Ibaraki University, **Institute of Physical and Chemical Research, ***Waseda University
- P-10 **How many people know Fair trade?**
 Marina Ishigami , Sae Yoshihara
 Seishin Gakuen High School
- P-11 **What is necessary to raise the gender equality ratio**
 Momoka Namaizawa,Tamao Inoie
 Seishin Gakuen high school
- P-12 **The actual of fast fashion**
 Yuki Iida, Taichi Miyazawa
 Seishin Gakuen High School
- P-13 **How to offer a good education to everyone**
 Miyu Azuma, Moka Kurihara
 Seishin gakuen high school
- P-14 **To protect the world's sea from plastic waste**
 Mizuki Isaka, Yura Ohara, Miho Moribe
 Seishin Gakuen High School
- P-15 **If people all over the world live the same life as people in Ibaraki prefecture, will the earth be enough?**
 Rin Nemoto
 Seishin Gakuen High School
- P-16 **Fabrication and Evaluation of Grinding Wheel with Special Internal Flow Channel Using 3D Printer and PELID**
 ◦Naoki Mori*, Nobuhide Itoh, Yuki Mashiko, Toui Yano, Katuhumi Inazawa and Hitoshi Ohmori**
 * Ibaraki University, ** Institute of Physical and Chemical Research, Wako, Saitama
- P-17 **Animal-like Walking and Running by a Simulated Quadruped Model**
 ○Takahiro Fukui*, Keigo Nakamura**, Yasushi Habu*, Yasuhiro Fukuoka***
 *Graduate School of Science and Engineering, Ibaraki University, 4-12-1 Nakanarusawa, Hitachi, Ibaraki 316-8511, Japan, **Tokyo Electric Power Company Holdings, Inc.12 Kobamasaku, Namikura, Futaba, Fukushima 979-0695, Japan, ***Department of Intelligent engineering, College of Engineering, Ibaraki University, 4-12-1 Nakanarusawa, Hitachi, Ibaraki 316-8511, Japan
- P-18 **Effect of Impurity Hydrogen on Fatigue Properties in an Al-10%Zn-2.5%Mg-1.6%Cu-0.2%Cr Alloy**

○Kai Kizawa*, Ryuichi Yamada**, Goroh Itoh***, Masashi Nakamura***
*Graduate School, Ibaraki University, ** Yamanashi University, *** Ibaraki University

P-19 **Strange behavior of the wave propagations on an electric transmission line**

○Dan Watanabe, Tatsuaki Wada
Ibaraki University

P-20 **Validation of heartbeat related signals extracted from functional near-infrared spectroscopy**

○Eriko Ouchi*, Hitoshi Usuniwa**, Kiyotaka Nemoto***, Terumi Inagaki****
*Graduate School of Science and Engineering, Ibaraki University, **Ibaraki Prefectural Medical Center of Psychiatry,
***Department of Neuropsychiatry, Division of Clinical medicine, Faculty of Medicine, University of Tsukuba,
****College of Engineering, Ibaraki University

P-21 **Suppression of Grain Boundary Cracking of Al - Zn - Mg Alloy by Strain-Induced Boundary Migration**

○Michihisa Nakajima *, Goroh Itoh **, Shigeru Kuramoto ***, Junya Kobayashi ****
*Graduate Student, Ibaraki University, **Ibaraki University, ***Ibaraki University, ****Ibaraki University

P-22 **Effects of Fine Bubble Coolant on Grinding Characteristics Effects of Intake Air Volume of Fine Bubble**

○Katsufumi Inazawa*, Atsushi Ezura**, Katsunori Kato***, Naoya Shinohara***, Hitoshi Ohmori****, Nobuhide Itoh*
*Ibaraki University, **Industrial Technology Center of Tochigi Prefecture,
Taiseikogyo Co.,Ltd., *Institute of Physical and Chemical Research

P-23 **Attempts in Fabricating Composite Abrasives Using Twin Nozzle PELID**

○Touji Yano, Nobuhide Itoh, Katuhumi Inazawa, Yoshio Kobayashi※ and Hitoshi Ohmori※※
※Ibaraki University, ※※Institute of Physical and Chemical Research

P-24 **Resistance to Humid Gas Stress Corrosion Cracking of MIG Weld of a 5083 Aluminum Alloy**

○Alireza GHORANI*, Tomoya KIUCHI**, Tomoyuki OHBUCHI*, Goroh ITOH***
*Graduate Student, Graduate School of Science and Engineering, Ibaraki University, **Undergraduate Student, College of Engineering, Ibaraki University, ***Department of Mechanical Engineering, Graduate School of Science and Engineering, Ibaraki University

P-25 **What will happen next to SDGs**

Keita Matsuzaki, Hiroki Iijima
Seishin Gakuen High School

P-26 **About SDGs**

Tokito Nakagawa, Hiromu Watanabe
Seishin Gakuen High School

P-27 **When are people going to achieve peace and fairness?**

Naho Ishige
Seishin Gakuen High School

P-28 **What do we need to do so everyone can receive a high quality education ?**

Chisato Kuroda, Runa Nakahara
Seishin Gakuen high school

P-29 **What will it be that we must do first for the world?**

Mana Noguchi
Seishin Gakuen High School

P-30 **Things to know when you make 100 citizens**

Ichika Kunie, Kana Yokoyama
Seishin Gakuen High School

P-31 **Current state of primary education in the world**

Nana Kurata
Seishin Gakuen High School

P-32 **Relationship Between GDP And Degree Of Happiness**

Kana Takahashi, Yui Sato, Mirai Tanimitu
Seishin Gakuen High School

P-33 **ENTERPRISES AND SDGs**

Youhei Asabe, Keto Minowa, Kazuma Nukaga
Seishin Gakuen High School

P-34 **Let's recycle used facial gauze at a beauty parlor**

Manato Nemoto
Seishin Gakuen high school

P-35 **The relationship between disaster and place name in Japan**

Haruya Emmando
Seishin Gakuen high school

P-36- *Winter Course Students*