

ISCI 15 1st Day (November 30th, 2019)

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	OHS-01	OSE-05	OSE-03
	<p>The vocal advocates of climate change</p> <p>○Keigo Koma <i>Hitachi Daiichi High School</i></p>	<p>Features suitable for video thumbnails on portable devices</p> <p>○Yusuke Yoneda*, Nobuyuki Umezu** <i>*Mechanical Systems Engineering, Sci. and Eng., Ibaraki University</i></p>	<p>Research and Development of High Power Millimeter Wave Fast Switching Device Using Natural Vibration</p> <p>○Fumiaki Inoue*, Daichi Handa*, Kana Yokoyama*, Akihiro Shimono*, Mikio Saigusa*, <i>*Ibaraki University</i></p>
10:50-11:05	OSE-04	OA-02	OSE-06
	<p>Development of Gold-Immobilized Magnetite Nanoparticles and Their Imaging Properties</p> <p>○Yukina Kobayashi*, Noriko Yamauchi*, Kouichi Nakashima*, Tomoya Inose**, Chihiro Kato**, Masayuki Tokunaga**, Kohsuke Gonda**, Yoshio Kobayashi* <i>* Hitachi Campus, Ibaraki University, ** Graduate School of Medicine, Tohoku University</i></p>	<p>Recognition of Insect Host of Entomopathogenic Fungi <i>Aschersonia Placenta</i> using Morphological and Molecular Analysis</p> <p>○Ni Putu Merthaningsih*, I Putu Sudiarta**, G.N. Alit Susanta Wirya** <i>*Magister of Biotechnology, Udayana University, **Faculty of Agriculture, Udayana University</i></p>	<p>Wild Birds Occurring during the Breeding Season in Urban Forest Parks in Mito</p> <p>○Machi Hanawa <i>Ibaraki University</i></p>
11:05-11:20	OSE-07	OSE-11	OSE-09
	<p>Fast similarity calculation between images for realtime photomosaic generation</p>	<p>Pseudo-3D Display Based on Head Tracking for Viewpoint Image Generation</p>	<p>Monochrome photograph colorization based on segmentation using deep learning</p>

	<p>○Takahiro Ishii*, Nobuyuki Umezu*</p> <p><i>*Mechanical Systems Engineering, Sci. and Eng., Ibaraki University</i></p>	<p>○Yuki Kubota*, Nobuyuki Umezu**</p> <p><i>* Mechanical Systems Engineering, Ibaraki University, ** Mechanical Systems Engineering, Ibaraki University</i></p>	<p>Daishi Mineta, Nobuyuki Umezu</p> <p><i>Ibaraki University</i></p>
11:20-11:35	OSE-10	OSE-08	OSE-12
	<p>Keyboard learning support using mirrored video</p>	<p>Research and development of underwater sensing system using electrolocation</p>	<p>Evaluation of Flowing Effect on Growing and Collapsing Behaviors of Cavitation Bubble in Narrow Boundary</p>
	<p>○Taisuke Nemoto*, Nobuyuki Umezu*</p> <p><i>*Mechanical Systems Engineering, Sci. and Eng., Ibaraki University</i></p>	<p>○Hiroki NAKAJIMA*, Shunya KIMURA*, Yuto TAKAHASHI*, Shota HORIKAWA*, Mikio SAIGUSA*</p> <p><i>*College of engineering, Ibaraki University</i></p>	<p>○Shunsuke KAWAMURA*, Takashi NAOE**, Nobuatsu TANAKA*, Masatoshi FUTAKAWA**</p> <p><i>*Graduate School of Science and Engineering, Ibaraki University, J-PARC Center, Japan Atomic Energy Agency</i></p>
11:35-11:50			
Lunch Time			
13:00-14:00	Oral Session 2 Group Study room on the second floor in Library		
	Room 1	Room 2	Room 3
13:00-13:15	OA-01	OSE-14	OSE-01
	<p>Exploration of Endophytic Bacteria to Control Anthranose Disease Caused by Colletotrichum scovillei on Chilli Pepper (Capsicum annuum L.)</p>	<p>Improvements on DNN-based pose estimation in still images by learning different datasets</p>	<p>Development of A Technique for Silica-Coating of Metallic Zn Nanoparticles</p>

	<p>OI Gede Karta Satria Wibawa*, Dewa Ngurah Suprpta**, Khamdan Khalimi*** <i>Faculty of Agriculture, Udayana University, Bali, Indonesia</i></p>	<p>OTakahiro Hoshi*, Nobuyuki Umezu** <i>*Mechanical Systems Engineering, sci. and Eng.,Ibaraki University</i></p>	<p>OSatoru Furukawa*, Noriko Yamauchi*, Kouichi Nakashima*, Kenichi. Watanabe**, Hidekazu Koda**, Hiroshi Kunigami**, Hideki Kunigami**, and Yoshio Kobayashi* <i>* Hitachi Campus, Ibaraki University, ** Shinko Kagaku Kogyosho Co., Ltd.</i></p>
13:15- 13:30	OSE-13	OSE-02	OSE-15
	<p>Eradication of the invasive species Ulex europaeus through Silviculture practices in Horton Plains National Park, Sri Lanka</p> <hr/> <p>P. A. C. N. B. Suraweera*, D.D.G.L. Dahanayaka **, Ivan Kuneš* <i>*Faculty of Forestry and Wood Sciences, Czech University of Life Sciences Prague, ** Department of Zoology, The Open University of Sri Lanka</i></p>	<p>Mood visualization using features extracted from financial news text</p> <hr/> <p>OYuki Hirokawa*, Nobuyuki Umezu*, Tomoya Suzuki***, Junichi Eguchi** <i>* Mechanical Systems Engineering, Ibaraki University, **Daiwa Asset Management Co.Ltd.</i></p>	<p>Development of a Technique for ZrO₂-Coating by Sol-Gel Method</p> <hr/> <p>OAkira Miwano*, Noriko Yamauchi*, Kouichi Nakashima*, Yoshio Kobayashi* <i>* Hitachi Campus, Ibaraki University</i></p>
13:30- 13:45	OA-03		
	<p>MAINSTREAMING AGROBIODIVERSITY VALUE: STUDY ON SELECTED ECO-FOODS IN SRI LANKA</p> <hr/> <p>oWijewardana P.A.A.P*, Senarathne B.I.N.C.** <i>*Education, Training and Research Division, Ministry of Mahaweli Development & Environment, Sri Lanka, **Department of Forestry and Environmental Science, University of Sri Jayawardenapura</i></p>		
13:45- 14:00			

	Short Break
14:30- 15:20	Poster Session (P-01 ~ P-17)
	Short Break
15:30- 16:20	Poster Session (P-18 ~ P-33)
	Short Break
16:45- 18:00	Welcome Party University Cafeteria

Poster Session Program

- P-01 **Suggestion concerning English Education in Elementary School**
Asuka Tanaka
Tokiwa University-High School
- P-02 **Considering Happiness**
○Yuna Kanzaki*, Ayaka Kishi**, Taihei Fukaya***
**Tokiwa University High School*
- P-03 **Emergence of Cluster-Glass State in Itinerant Ferromagnetic Compound $\text{Sr}_{1-x}(\text{La}_{0.5}\text{K}_{0.5})_x\text{RuO}_3$**

Ryoya Iwahara*, Ryoma Sugawara and Makoto Yokoyama
Institute of Quantum Beam Science, Ibaraki University, Mito 310-8512, Japan
- P-04 **Study on Thermo-Physical Properties of Several Fatty Acids and Their Mixture for a Multi Stage Heat Exchange System**

○Takumi Iwata*, Asuka Sakamoto*, Yanrong Li**, Terumi Inagaki**
**Graduate School of Science and Engineering, Ibaraki University, **College of Engineering, Ibaraki University*
- P-05 **The Effect of Prandtl Number on Thermal Flow of Natural Convection in a Horizontal Vessel with Free Surface**

○Shingo FUJIWARA*, Terumi INAGAKI**, Yanrong LI**
** Graduate School of Sci. and Eng., Ibaraki Univ., ** College of Engineering, Ibaraki University*
- P-06 **Detection of railway curve using a camera mounted on railway vehicle with active steering bogie**

○Issei Amanokura*, Yohei Michitsuji**
**Graduate School of Ibaraki University, **Ibaraki University*
- P-07 **Natural Convection Heat Transfer of Magnetic Ionic Liquid in a Horizontal Enclosed Rectangular Container under Vertical Magnetic Field**

○Ryosuke Nagai*, Yanrong Li**, Terumi Inagaki**
**Graduate School of Sci. and Eng., Ibaraki University, **College of Engineering, Ibaraki University*
- P-08 **Detoxification of *N*-Benzoyltryptamine and *N*-Cinnamoyltryptamine by the Rice Brown Spot Fungus *Bipolaris oryzae***

○Surono Dwi Saputra*,**, Shuhei Onzuka**, Morifumi Hasegawa**
**Gadjah Mada University, **Ibaraki University*
- P-09 **Characterization of Insecticidal-like Toxin Complex TcaAB from an Endohyphal Bacteria, *Mycoavidus cysteinexigens* B1-EB**

○Afri Herlambang*,**, Tomoyasu Nishizawa*
**Graduate School of Agriculture, Ibaraki University, Japan, **The Graduate School of Universitas Gadjah Mada, Indonesia*
- P-10 **Temperature and velocity field measurements in a microchannel**

○Mizuki NAITO*, Yanrong LI**, Terumi INAGAKI**

* *Graduate School of Sci. and Eng., Ibaraki University*, ** *College of Engineering, Ibaraki University*

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P-18 **Antiferromagnetic quantum critical behavior in Ni-doped CeRhIn₅**

Ryoma Sugawara*, Makoto Yokoyama*, Daichi Ueta**, Takatsugu Masuda**, Akihiro Kondo**,
and Koichi Kindo**

Institute of Quantum Beam Science, Ibaraki University, Mito 310-8512, Japan*, *Institute of Solid State Physics,
The University of Tokyo, Kashiwa 277-8581, Japan*

P-19 **Effect of forming die on spinning of Al-Mg-Si alloy tube**

○Shota Seta*, Junya Kobayashi**, Goroh Itoh***

* *Ibaraki University, Graduate school of Science and Engineering, major of Mechanical System Engineering*,
** *Ibaraki University, Mechanical System Engineering*, *** *Ibaraki University, Mechanical System Engineering*

P-20 **Unsteady Heat Fluctuation of Natural Convection in an Open Rectangular Container**

○Iori Okazaki*, Terumi Inagaki**, Yanrong Li**

* *Graduate School of Science and Engineering, Ibaraki University*, ** *College of Engineering, Ibaraki University*

P-21 **What we can do for Ibaraki**

○Sota Kuwahara, Mao Kanbayashi, Saya Matsushita, Lisa Igarashi, Ayaka Iida, Yuka Ito
Ushiku Eishin Senior High School

P-22 **Ibaraki's Instagram Spot**

Mizuki Aizawa, Ryusei Isige, Aoi Kozawa, Akane Kusakabe, Kaede Yamamoto
Ushiku Eishin Senior High School

P-23 **Power waves propagation describing quantum properties**

○Dan Watanabe, Tatsuaki Wada
Ibaraki University

P-24 **Development of Fiber grinding wheel using PELID**

○Ryosuke Inuma *, Nobuhide Itoh* Taiki Yamamoto* Shinziro Umezu** and Hitoshi Ohmori***
*Ibaraki University, **Waseda University ***The Institute of Physical and Chemical Research

P-25 **Influence of Friction-Stir Process on Mechanical Properties of Mg - Al - Zn - Ca Alloys**

○Kentaro KIMURA*, Shigeru KURAMOTO**, Eitaro YUKUTAKE***, Tomomi ITO****, Masafumi NODA****
* Graduate Student, Ibaraki University, **Ibaraki University,
Industrial Technology Innovation Center of Ibaraki Prefecture, *Gonda Metal Industry

P-26 **Study of simple detection method of seedborne disease**

○Yamada Rikako*, Hiroyuki Anzai**, Masami Nakajima*, Ayako Furutani**
*Graduate school of Agriculture, Ibaraki Univ., **Gene Research Center, Ibaraki Univ.

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