



Conference Program

International Exchange and Innovation Conference on Engineering & Sciences IEICES 2019

Oct. 24th (Thursday)

Chikushi Hall, C-CUBE Building, Chikushi Campus, Kyushu University

09:00 – 09:30	Registration (Lobby, C-CUBE Building) Welcome Speech: Assoc. Prof. Osama Eljamal
09:30 – 09:35	IEICES 2019 Chair <i>Interdisciplinary Graduate School of Engineering Sciences, Kyushu University</i>
09:35 – 09:45	Opening Remark: Prof. Hideharu Nakashima IEICES 2019 Scientific Committee <i>Dean of Interdisciplinary Graduate School of Engineering Sciences, Kyushu University</i>
09:45 – 10:05	About the IGSES, Kyushu University: Prof. Seigi Mizuno IEICES 2019 Scientific Committee <i>Vice Dean of Interdisciplinary Graduate School of Engineering Sciences, Kyushu University</i>

10:05 – 10:20

Photo Session / Coffee Break

Special Session 1 (Chikushi Hall)

Session Chair	Assoc. Prof. Andrew Spring
Co-chair	Ibrahim Maamoun
10:20 – 10:50	Keynote Speech 1: Assoc. Prof. Hooman Farzaneh <i>Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Japan</i>
10:50 – 11:20	Keynote Speech 2: Assoc. Prof. Solehuddin Shuib <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA, Malaysia</i>
11:20 – 11:40	Coffee Break

Session 1 Civil Engineering 1 (Chikushi Hall)

Session 2 Environmental Engineering 1 (Room 303)

Session Chair	Sahabuddin Sitti Subaedah	Md. Ahsan Habib
Co-chair	Solli Murtyas	Sneh Kumar
11:40 – 11:42	Rilya Rumbayan <i>Manado State Polytechnic</i>	Ibrahim Maamoun <i>Kyushu University</i>
11:42 – 11:54	Achmad Gufron <i>Universitas Gadjah Mada</i>	Tamer Shubair <i>Kyushu University</i>
11:54 – 12:06	Nor Aiman Nor Izmin <i>Universiti Teknologi MARA</i>	Frantisek Miksik <i>Kyushu University</i>

12:06 – 13:40

Lunch



**Special Session 2
 (Chikushi Hall)**

Session Chair	Assoc. Prof. Osama Eljamal
Co-chair	Bensaida Khaoula
13:40 – 14:10	Keynote Speech 3: Mr. Ryo Sato <i>Research Management Solution Consultant Elsevier Japan</i>
14:10 – 14:20	Coffee Break

**Session 3
 Material Science 1
 (Chikushi Hall)**

**Session 4
 Electrical, Computer, Aerospace
 Engineering and Material Science 2
 (Room 303)**

Session Chair	Solli Murtyas	Sneh Kumar
Co-chair	Sahabuddin Sitti Subaedah	Md. Ahsan Habib
14:20 – 14:32	Nor Hafiez Mohamad Nor <i>Universiti Teknologi MARA</i>	Faheem Abass <i>Mawyah Abdullah Al-Bkheet-Estal-Hasa</i>
14:32 – 14:44	Ji-Hwoan Lee <i>Kyushu University</i>	Suziana Binti Ahmad <i>Kyushu University</i>
14:44 – 14:56	Seung-Hyeon Kim <i>Kyushu University</i>	Aneeka Wasim <i>University of Gujrat</i>
14:56 – 15:08	Paradee Kwanmuang <i>Kasetsart University</i>	Mohd Hafiz Mohd Noh <i>Universiti Teknologi MARA</i>
15:08 – 15:20	Mohd Muzamir Mahat <i>Universiti Teknologi MARA</i>	Farhana Jesmin Tuli <i>Kyushu University</i>
15:20 – 15:44	Coffee Break	

**Session 5
 Mechanical Engineering 1
 (Chikushi Hall)**

**Session 6
 Civil Engineering 2, Environmental
 Engineering 2, and Mechanical
 Engineering 2
 (Room 303)**

Session Chair	Ramadan Eljamal	Khaoula Bensaida
Co-chair	Ibrahim Maamoun	Jaedeok Ko
15:44 – 15:56	Jannatul Fardous <i>Kyushu University</i>	Hamidun Bin Mohd Noh <i>Universiti Tun Hussein Onn Malaysia</i>
15:56 – 16:08	Nor Fazli Adull Manan <i>Universiti Teknologi MARA</i>	Do Yeon Kim <i>Kumoh National Institute of Technology</i>
16:08 – 16:20	Ahmad Hussein Abdul Hamid <i>Universiti Teknologi MARA</i>	Nur` Ain Idris <i>Universiti Tun Hussein Onn Malaysia</i>
16:20 – 16:32	Shahrul Hisyam Marwan <i>Kyushu University</i>	Relebohile Mokete <i>Kyushu University</i>
16:32 – 16:44	Helmi Bin Rashid <i>Universiti Teknologi MARA</i>	Mohd Suhairil Meon <i>Universiti Teknologi MARA</i>
16:44 – 17:00	Closing Remark	



Oct. 25th (Friday)

Special Session 3 (Chikushi Hall)

Session Chair	Assoc. Prof. Osama Eljamal
Co-chair	Bensaida Khaoula
09:30 – 10:00	Keynote Speech 4: Dr. Hadi Farabi-Asl <i>International Institute for Carbon-Neutral Energy Research, Kyushu University, Japan</i>
10:00 – 10:24	Coffee Break

Session 7 Energy Sciences (Chikushi Hall)

Session 8 Optoelectronics (Room 303)

Session Chair	M. Khalid Hossain	Jaedeok Ko
Co-chair	Shahrul Hysyam Marwan	Farhana Jesmin Tuli
10:24 – 10:36	Wasim Abass <i>Mawyah Abdullah Al-Bkheet-Estal-Hasa</i>	Yu Han <i>Kyushu University</i>
10:36 – 10:48	Sampad Ghosh <i>Kyushu University</i>	Zan Hui Chen <i>Kyushu University</i>
10:48 – 11:00	M. L. Palash <i>Kyushu University</i>	Satoshi Ogawa <i>Kyushu University</i>
11:00 – 11:12	Tahmid Hasan Rupam <i>Kyushu University</i>	Li Wenying <i>Kyushu University</i>
11:12 – 11:24	Syed Fahad Zamir <i>Nora Cooling EST</i>	Shingo Murakami <i>Kyushu University</i>
11:24 – 13:24	Lunch	

Session 9 Mechanical Engineering 2 (Chikushi Hall)

Session 10 Environmental Engineering 3 (Room 303)

Session Chair	Shahrul Hysyam Marwan	Farhana Jesmin Tuli
Co-chair	M. Khalid Hossain	Jaedeok Ko
13:24 – 13:36	Kaiser Ahmed Rocky <i>Kyushu University</i>	Sami Alkhudhayri <i>Kyushu University</i>
13:36 – 13:48	J. B. Saedon <i>Universiti Teknologi MARA</i>	Khaoula Bensaida <i>Kyushu University</i>
13:48 – 14:00	S. Shawal <i>Universiti Teknologi MARA</i>	Ramadan Eljamal <i>Kyushu University</i>
14:00 – 14:12	Mohammad Azeeb Mazlan <i>Universiti Teknologi MARA</i>	Omar Falyouna <i>Kyushu University</i>
14:12 – 14:24	Wan Fatimatul Aifaa Wan Fadzil <i>Universiti Teknologi MARA</i>	Md. Mariar Rahman <i>Kyushu University</i>
14:24 – 14:40	Coffee Break	



5th International Exchange and Innovation Conference on Engineering & Sciences
Kyushu University, Fukuoka, Japan
October 24-25th, 2019

14:40 – 16:30

Poster session
(3rd floor C-cube building)

Closing Remark & Best Presenter Award

16:30 – 17:00

Prof. Seigi Mizuno

Vice Dean of Interdisciplinary Graduate School of Engineering Sciences, Kyushu University



Oral session

Session 1 - Civil Engineering 1

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|---------------|--|
| 11:40 – 11:42 | A Study on the Utilization of Local Coconut Timber Waste as Sustainable Building Material
<u>Rilya Rumbayan</u> , Meita Rumbayan
<i>Manado State Polytechnic</i> |
| 11:42 – 11:54 | Optimization Study of the System of Clean Water Distribution and Transmission in District of Agats
<u>Achmad Gufron</u> , Wahdan Achmad, Fadli Kasim, Muhammad Yayan Adi
<i>Universitas Gadjah Mada</i> |
| 11:54 – 12:06 | Effects of Varus & Valgus Implant Malposition in Resurfacing Hip Arthroplasty
<u>Nor Aiman Nor Izmin</u> , Mitsugu Todo, Abdul Halim Abdullah
<i>Universiti Teknologi MARA, UiTM</i> |
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Session 2 - Environmental Engineering 1

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| 11:40 – 11:42 | Effect of Nano Zero Valent Iron Delivery Method into Porous Media on Phosphorus Removal from Groundwater
<u>Ibrahim Maamoun</u> , Osama Eljamal, Ian P. Thompson, Ramadan Eljamal, Omar Falyouna, Yuji Sugihara
<i>Kyushu University</i> |
| 11:42 – 11:54 | Fe/Cu Nanoparticles–zeolite Composite for Efficient Sr²⁺ Uptake from Water
<u>Tamer Shubair</u> , Osama Eljamal
<i>Kyushu University</i> |
| 11:54 – 12:06 | The Stability of Water Molecular Bridges in Ombrotrophic Peatland Soil
<u>Frantisek Miksik</u> , Štěpánka Freithová, Josef Kotlík, Jiří Kučeřík, Alasdair MacLeod
<i>Brno University of Technology, Kyushu University</i> |
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Session 3 - Material Science 1

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|---------------|---|
| 14:20 – 14:32 | Thermal Pyrolysis Optimization for Highest Density of Ti-6Al-4V Mix with Palm Stearin and Polyethylene
<u>Nor Hafiez Mohamad Nor</u> , N. Muhamad, H. Husain, S. Shawal, M. Suhairil, M. Fauzi, M. Fairuz, J. B. Saedon
<i>Universiti Teknologi MARA</i> |
| 14:32 – 14:44 | Characterization on Microstructural Evolution of Y2O3 Fabricated by Spark Plasma Sintering
<u>Ji-Hwoan Lee</u> , Byung-Nam Kim, Byung-Koog Jang
<i>Kyushu University</i> |
| 14:44 – 14:56 | The Effect of Vanadium Addition on the Microstructure and Mechanical Properties of Indefinite Chilled Cast Iron
<u>Seung-Hyeon Kim</u> , Eung-Ryul Baek, Byung-Koog Jang
<i>Kyushu University</i> |
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14:56 – 15:08	Synthesis of a Novel Sensor Based on Orcinol-dansyl Derivative for Fluoride Ion Detection <u>Paradee Kwanmuang</u> , Apisit Songsasen, Boontana Wannalarse <i>Kasetsart University</i>
15:08 – 15:20	Conductivity, Morphology and Thermal Studies of Polyaniline Fabrics <u>Mohd Muzamir Mahat</u> , Nazreen Che Roslan, Muhammad Asyrap Kamarudin, Siti Nurzatul Ikma Omar, Mohamed Izzharif Abdul Halim, Rosmammuhamadani Ramli, Mohd Muzamir Mahat <i>Universiti Teknologi MARA</i>

Session 4 - Electrical, Computer, Aerospace Engineering and Material Science 2

14:20 – 14:32	Optical Ground Wire Performance Analysis in Electric Power Transmission Network <u>Faheem Abass</u> , Naeem Abas, Ali R. Kalair, Nasrullah Khan, M.S. Saleem <i>Mawyah Abdullah Al-Bkheet-Estal-Hasa</i>
14:32 – 14:44	Comparison of LCL and LCLC Compensation Circuit for Capacitive Power Transfer System <u>Suziana Binti Ahmad</u> , Aam Muharam, Reiji Hattori <i>Kyushu University</i>
14:44 – 14:56	Smart Lightning Alert Devices Must Not Wait for Lighting to Strike <u>Aneeka Wasim</u> , Naeem Abas, Ali Raza Kalair <i>University of Gujrat</i>
14:56 – 15:08	Two Equation Turbulent Model Simulation for Subsonic Turbine Blade <u>Mohd Hafiz Mohd Noh</u> , A. H. A. Hamid, K. Mori <i>Universiti Teknologi MARA</i>
15:08 – 15:20	Interfacial Magnetic Properties of Fe Deposited on MoS₂ Flakes <u>Farhana Jesmin Tuli</u> , Mohammad Tawheed Kibria, Takeshi Nakagawa, Seigi Mizuno <i>Kyushu University</i>

Session 5 - Mechanical Engineering 1

15:44 – 15:56	Feasibility Study of Theophylline Solution in Water and Sodium Carboxymethylcellulose <u>Jannatul Fardous</u> , A H M Saifuddin, Sultana Amena, Sakina Sultana <i>Kyushu University</i>
15:56 – 16:08	Improvement on Oral Radiography Desktop <u>Nor Fazli Adull Manan</u> , Muhamad Helmi Affandi Adnan, Nur Nabila Mohd Nazali, Mohd Yusmialdil Putera Mohd Yusof <i>Universiti Teknologi MARA</i>
16:08 – 16:20	Laminar Flows over Equilateral Triangular Cylinders in Tandem Arrangement <u>Ahmad Hussein Abdul Hamid</u> , M. H. M. Noh <i>Universiti Teknologi MARA</i>
16:20 – 16:32	Biomechanical Analysis of Hypertrophic Cardiomyopathy Behavior of Human Heart using Dynamic Finite Element Method <u>Shahrul Hisyam Marwan</u> , Mitsugu Todo <i>Kyushu University</i>



16:32 – 16:44 **ProRIDE Guideline: A Guideline for Prolonged Motorcycle Riding**
Helmi Bin Rashid, Abdul Rahman Bin Omar, Sukarnur Bin Che Abdullah
Universiti Teknologi MARA

Session 6 - Civil Engineering 2, Environmental Engineering 2, and Mechanical Engineering 2

15:44 – 15:56 **Performance of Hollow Reinforced Concrete Beam in Structural Member**
Hamidun Bin Mohd Noh, Nur'ain Idris, Norlailatul Izzatil Azwani Mohamad, Rolly Bangau
Universiti Tun Hussein Onn Malaysia

15:56 – 16:08 **Study on Effect of Reinforcement using Helical Bars on Circular RC Columns under Cyclic Lateral Load**
Do Yeon Kim, Ja-Eun Shin, Seong-Kyum Kim, Il-Young Jang
Kumoh National Institute of Technology

16:08 – 16:20 **The Performance of Voided Reinforced Concrete by Using the Rectangular Shape of Voided Beam**
Nur' Ain Idris, Hamidun Mohd Noh, Rolly Anak Bangau
Universiti Tun Hussein Onn Malaysia

16:20 – 16:32 **Analogy of Iron-Copper and Iron-Silver Bimetals during the Corrosion Process**
Relebohile Mokete, Osama Eljamal
Kyushu University

16:32 – 16:44 **On the Modelling Aspect of Low Velocity Impact Composite Laminates**
Mohd Suhairil Meon, N.H. Mohamad Nor, S. Shawal, J.B. Saedon, M.N. Rao, K.-U. Schröder
Universiti Teknologi MARA

Session 7 - Energy Sciences

10:24 – 10:36 **Energy Audit in Buildings for Sustainable Development**
Wasim Abass, Naeem Abas, Ali Raza Kalair, Muhammad Shoaib Saleem
Mawyah Abdullah Al-Bkheet-Estal-Hasa

10:36 – 10:48 **Thermoelectric Properties of Graphene and Carbon Nanotube**
Sampad Ghosh, Sivasankaran Harish, Bidyut Baran Saha
Kyushu University

10:48 – 11:00 **Investigation of Surface Energy of Porous Adsorbents**
M. L. Palash, Animesh Pal, Bidyut Baran Saha
Kyushu University

11:00 – 11:12 **Synthesis and Characterization of Aluminum Fumarate Metal Organic Framework**
Tahmid Hasan Rupam, M.L. Palash, Israt Jahan, Bidyut Baran Saha
Kyushu University

11:12 – 11:24 **A Comparative Study of Various Solar Thermal Water Heater Collector Types using TRNSYS**
Syed Fahad Zamir
Nora Cooling EST



Session 8 - Optoelectronics

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| 10:24 – 10:36 | Significant Propagation Loss Reduction on Silicon High-Mesa Waveguides Using Thermal Oxidation Technique
<u>Yu Han</u> , Wenying Li, Haisong Jiang, Kiichi Hamamoto
<i>Kyushu University</i> |
| 10:36 – 10:48 | Compact and Highly Sensitive Methane Sensor Based on Two tTngent Air Hole Structure
<u>Zan Hui Chen</u> , Wenying Li, Haisong Jiang, Kiichi Hamamoto
<i>Kyushu University</i> |
| 10:48 – 11:00 | Proposal of 1×N Optical Mode Switch Based on Spatial Single Dimensional Mode
<u>Satoshi Ogawa</u> , Haisong Jiang, Kiichi Hamamoto
<i>Kyushu University</i> |
| 11:00 – 11:12 | Compact Breath Sensing using Amplifier Assisted CRDS (Cavity Ring-down Spectroscopy)
<u>Li Wenying</u> , Yu Han, Zanhui Chen, Haisong Jiang, Kiichi Hamamoto
<i>Kyushu University</i> |
| 11:12 – 11:24 | Observation of 60 GHz and 20 GHz Multiple Photon-Photon Resonances Using Active Multimode Interferometer Laser Diodes
<u>Shingo Murakami</u> , Bingzhou Hong, Haisong Jiang, Kiichi Hamamoto
<i>Kyushu University</i> |
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Session 9 - Mechanical Engineering 2

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| 13:24 – 13:36 | Adsorption Characteristics of CO₂ onto Carbon Nanotube for Adsorption Cooling/Capturing Applications
<u>Kaiser Ahmed Rocky</u> , Animesh Pal, Bidyut Baran Saha
<i>Kyushu University</i> |
| 13:36 – 13:48 | CAD/CAE Applications to Determine Best Operating Parameters on Dental Mirror
<u>J. B. Saedon</u> , Siti Sarirah M.H, Mujahidah Z. A, Syahar Syawal, M. S Adenan, Nor Hafiez Mohamad Nor, M. Suhairil Meon
<i>Universiti Teknologi MARA</i> |
| 13:48 – 14:00 | Improved Imaging and Post-processing of Early Combustion in a Spark-ignition Engine via Endoscopic High-speed Imaging
<u>S. Shawal</u> , S. A. Kaiser
<i>Universiti Teknologi MARA</i> |
| 14:00 – 14:12 | Design & Analysis of 3D Printed Prosthetic Hand for Symbrachydactyly Patients
<u>Mohammad Azeeb Mazlan</u> , Wan Fatimatul Aifaa Wan Fadzil, Helmi Rashid, Abdul Halim Abdullah
<i>Universiti Teknologi MARA</i> |
| 14:12 – 14:24 | Development of 3D Printed Socket for Transtibial Prosthetic Leg
<u>Wan Fatimatul Aifaa Wan Fadzil</u> , Mohammad Azeeb Mazlan, Fazah Akhtar Hanapiah, Abdul Halim Abdullah
<i>Universiti Teknologi MARA</i> |
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Session 10 - Environmental Engineering 3

13:24 – 13:36	Thermodynamic Effect on Boron Removal from Aqueous Solutions by MgAl-Layered Double Hydroxide <u>Sami Alkudhayri</u> , Osama Eljamal, Ibrahim Maamoun, Ramadan Eljamal <i>Kyushu University</i>
13:36 – 13:48	Effect of Bimetallic Zero Valent Iron Nanoparticles Ag/NZVI on Bacterial Growth <u>Khaoula Bensaida</u> , Osama Eljamal, Ramadan Eljamal, Relebohile Mokete, Yuji Sugihara <i>Kyushu University</i>
13:48 – 14:00	Upgrading of Aerobic Sequencing Batch Reactor System with Adding Nanoscale Zero Valent Iron for Wastewater Treatment <u>Ramadan Eljamal</u> , Osama Eljamal, Ian P. Thompson, Ibrahim Maamoun, Yuji Sugihara <i>Kyushu University</i>
14:00 – 14:12	Removal of Cesium from Contaminated Waters by Employing Iron-based Nanoparticles and Nanocomposites <u>Omar Falyouna</u> , Osama Eljamal, Ibrahim Maamoun <i>Kyushu University</i>
14:12 – 14:24	Factorial Experimental Design for Optimization of Cesium Removal from Aqueous Solutions <u>Md. Mariar Rahman</u> , Shamal C. Karmaker, Animesh Pal, Osama Eljamal, Bidyut Baran Saha <i>Kyushu University</i>



Table of Posters

Oct. 25th (Friday, 14:40 – 16:10), 3rd floor C-cube building

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Poster 02	Deep Convolutional Generative Adversarial Network for Image Deblurring Problem <u>Minh Tran Ngoc</u> , Dong-Chul Park <i>Myongji University</i>
Poster 03	Coupling Approach of Lattice Boltzmann Fluid Simulation and Finite Element Analysis of Geophysical Properties: Application to Natural Rock Fracture in Geothermal Area <u>Kazuki Sawayama</u> , Takeshi Tsuji, Yasuhiro Fujimitsu <i>Kyushu University</i>
Poster 04	Transition of Initiative from Ubiquitous City to Sustainable Smart City by Korea: Focusing on the Case of Songdo City <u>MyungHee Kim</u> <i>Smith College, Sahmyook University</i>
Poster 05	Dynamic Simulation of a Thermal Management System Consisting of a CO₂ Heat Pump and a Water-loop <u>Jaedeok Ko</u> , Nobuo Takata, Kyaw Thu, Takahiko Miyazaki <i>Kyushu University</i>
Poster 06	Integrating 3D-Printing Technology in Assistive Adaptive Device Prescription in Rehabilitation Medicine: A Conceptual Framework <u>Natiara Binti Mohamad Hashim</u> , NAC Zakaria, S Shukor, MZ Amin, NS Mahdzir, NM Mustafah, NF Aroslan <i>Universiti Teknologi MARA</i>
Poster 07	Non-uniform Sintering Behavior of Y₂O₃ Ceramics <u>Ji-Hwoan Lee</u> , Byung-Nam Kim, Byung-Koog Jang <i>Kyushu University</i>
Poster 08	Propagation Mode Retention Using Strongly Coupled Multi-Core Fiber <u>Mahmoud Nasef</u> , Kantaro Fujimoto, Haisong Jiang, Kiichi Hamamoto <i>Kyushu University</i>
Poster 09	The Effect of Post Treatment in Pore Development of Activated Carbon Prepared from Rice Husk <u>Chairunnisa</u> , Kyaw Thu, Takahiko Miyazaki, Jin Miyawaki, Koji Nakabayashi, Muhammad Hamid Mahmood, Muhammad Sultan <i>Kyushu University</i>
Poster 10	Occupancy Rate and Water Utility Effect on Energy Consumption of Commercial Building: Case Study Grand Inna Malioboro Hotel in Indonesia <u>Solli Murtyas</u> , Mohammad Ridwan, Rachmawan Budiarto <i>Kyushu University</i>



Poster 11	Epoxy-Coated of Bamboo Fibre Reinforced Polymer Composite for Uncemented Total Hip Replacement (THR) Application <i>Nur Faiga Binti Ismail, Solehuddin Shuib, Ahmad Zafir Romli</i> <i>Universiti Teknologi MARA</i>
Poster 12	“CAN PEOPLE DETECT DILEMMA STRENGTH IN A 2 PLAYER 2 STRATEGY GAME?”: A SURVEY <i>Md. Ahsan Habib, Jun Tanimoto</i> <i>Kyushu University</i>
Poster 13	Study of the photocatalyst filters on the rate of HCHO and TVOC removal <i>Chih-Mei, Chou, Vincent Lee</i> <i>JinWen University of Science and Technology</i>
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Poster 14 (GA-1)	Single-phase All-solid-state Batteries using NASICON-type Oxide Materials <i>Akira Nishio</i> <i>Kyushu University</i>
Poster 15 (GA-2)	Directional Reversal of Solitary Wave in Ising Type Vicsek Model <i>Kazuya Ishibashi</i> <i>Kyushu University</i>
Poster 16 (GA-3)	Development of Laser Excitation Thermal Lens Spectroscopy by Deep Ultraviolet Excitation (LETLS-213) <i>Aira Kamito</i> <i>Kyushu University</i>
Poster 17 (GA-4)	Spatio-temporal Analysis of Coastal and Marine Environments Based on Local Remote Sensing and Photogrammetry <i>Wang Yukun</i> <i>Kyushu University</i>
Poster 18 (GA-5)	An Exergy Analysis of R410a as a ‘Drop-In’ Refrigerant for a Mechanical Vapor Compression Chiller <i>Perera Colombantirige Uthpala Amoda</i> <i>Kyushu University</i>
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Poster 20 (GA-7)	Comparative Analysis of Inhalation Exposure to E-cigarette Vapors with Different Puffing Behaviors Using PBPK-CFD Approach <i>Kazuki Kuga</i> <i>Kyushu University</i>
Poster 21 (GA-8)	Normalization of Gas Transfer Velocity at Air-water Interface <i>Kim Sung Jin</i> <i>Kyushu University</i>



Poster 22 (GA-9)	Temperature Dependency Thermal Conductivity of Indium Gallium Zinc Oxide Thin Films with Three Omega Method and Characterizing Microstructure Analysis Khan MD Rauf UL Karim <i>Kyushu University</i>
Poster 23 (GA-10)	Production of Fuel Pellet from the Mixture of Heavy Oil and Biochar with a variety of Blending Ratios Aditya Wibawa <i>Kyushu University</i>
Poster 24 (GA-11)	Optimizing the Distance between Organic Light Emitting Diode (OLED) and Organic Photodetector (OPD) for the Reflectance Pulse Meter Sensor Muhamad Affiq Bin Misran <i>Kyushu University</i>
Poster 25 (GA-12)	Hard Coating of Nanodiamond Composite Films Deposited on Silicon Substrate by Coaxial Arc Plasma Deposition Ali Mohamed Ali Ebrahim Abdelgawad <i>Kyushu University</i>
Poster 26 (GA-13)	Application of Excimer Laser Irradiations for Formation of Conductive Layers on Singlecrystalline Diamond Eslam Naeim Hussien Abubakr <i>Kyushu University</i>
Poster 27 (GA-14)	Non-linear Analysis of Deformation Behavior of HA/PLCL Porous Bio-composites Fatin Hazwani Binti Mohamad Azahar <i>Kyushu University</i>
Poster 28 (GA-15)	Assessment of Vertebral Strength using CT-image Based Finite Element Method Wu Shun <i>Kyushu University</i>
Poster 29 (GA-16)	Tomography & Three Dimensions (3D) Electron Microscopy Imaging for Nanowires Decorated with Nanoparticles Sameh Ahmed Okasha Zaki Mohamed <i>Kyushu University</i>
Poster 30 (GA-17)	The Impact of Seasonal Rainfall toward Crustal Pore Pressure: Insight from Seismic Velocity Change Monitoring Rezkie Dewi Andajani <i>Kyushu University</i>
Poster 31 (GA-18)	Time-Resolved Cavity Ring-Down Spectroscopy for Erosion Sensor of Hall Thruster Yusuke Egawa <i>Kyushu University</i>
Poster 32 (GA-19)	AC-catalyzed Enargite Bioleaching Using Moderately Thermophilic Bacteria Keishi Oyama <i>Kyushu University</i>



Poster 33 (GA-20)	Impact of Border Trap on Mobility of Ge p-MOSFET with Al₂O₃/GeO_x/Ge Gate Stacks Wei-Chen Wen <i>Kyushu University</i>
Poster 33 (GA-21)	Thermal Stability Control of Electro-optic (EO) Polymer Based Norbornene for Hybrid EO Modulator Alisa Bannaron <i>Kyushu University</i>
Poster 34 (GA-22)	Identification of a Novel Fracture Mechanism in a Bioceramic/Biopolymer Composite John James Duckworth <i>Kyushu University</i>
Poster 35 (GA-23)	Structure Determination of Sn on Cu(111) Using LEED Rezwan Ahmed <i>Kyushu University</i>
Poster 36 (GA-24)	3D DSMC Simulation of Neutral Particles in Miniature Ion Thruster Ali Yousefian <i>Kyushu University</i>
