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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)	
09:30 – 09:35	Welcome Speech: Assoc. Prof. Osama Eljamal	
	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*

List of presented papers

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1-3	A Study on the Utiliization of Local Coconut Timber Waste as Sustainable Building Material <u>Rilya Rumbayan</u> , Meita Rumbayan <i>Manado State Polytechnic</i>
4-8	Study on Effect of Reinforcement using Helical Bars on Circular RC Columns under Cyclic Lateral Load <u>Do Yeon Kim</u> , Ja-Eun Shin, Seong-Kyum Kim, Il-Young Jang <i>Kumoh National Institute of Technology</i>
9-11	Effect of Nano Zero Valent Iron Delivery Method into Porous Media on Phosphorus Removal from Groundwater <u>Ibrahim Maamoun</u> , Osama Eljamal, Ramadan Eljamal, Omar Falyouna, Yuji Sugihara <i>Kyushu University</i>
12-15	The Stability of Water Molecular Bridges in Ombrotrophic Peatland Soil <u>Frantisek Miksik</u> , Štěpánka Freithová, Josef Kotlík, Jiří Kučerk, Alasdair MacLeod <i>Brno University of Technology, Kyushu University</i>
16-18	Analogy of Iron-Copper and Iron-Silver Bimetals during the Corrosion Process <u>Relebohile Mokete</u> , Osama Eljamal <i>Kyushu University</i>
19-21	Thermodynamic Effect on Boron Removal from Aqueous Solutions by MgAl-Layered Double Hydrotalcite <u>Sami Alkhudhayri</u> , Osama Eljamal, Ibrahim Maamoun, Ramadan Eljamal <i>Kyushu University</i>
22-23	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>
24-25	Upgrading of Aerobic Sequencing Batch Reactor System with Adding Nanoscale Zero Valent Iron for Wastewater Treatment <u>Ramadan Eljamal</u> , Osama Eljamal, Ibrahim Maamoun, Yuji Sugihara <i>Kyushu University</i>
26-27	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>
28-29	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>

Page	Theme: Energy Sciences
30-31	Thermoelectric Properties of Graphene and Carbon Nanotube <u>Sampad Ghosh</u> , Sivasankaran Harish, Bidyut Baran Saha <i>Kyushu University</i>
32-33	Investigation of Surface Energy of Porous Adsorbents <u>M. L. Palash</u> , Animesh Pal, Bidyut Baran Saha <i>Kyushu University</i>
34-35	Adsorption Characterization of Aluminum Fumarate Metal-organic Framework <u>Tahmid Hasan Rupam</u> , M.L. Palash, Israt Jahan, Bidyut Baran Saha <i>Kyushu University</i>
36-38	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>
39-43	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>
Page	Theme: Material and Mechanical Engineering
44-46	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>
47	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>
48	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>
49-52	Synthesis of a Novel Sensor Based on Orcinol-dansyl Derivative for Fluoride Ion Detection <u>Paradee Kwanmuang</u> , Apisit Songsasen, Boontana Wannalerse <i>Kasetsart University</i>
53-57	Morphological, Structural and Electrochemical Studies of Conductive Polyaniline Coated Polyester 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>
58-59	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>

60-62	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>
63-66	Modelling Low-Velocity Impact on Composite Laminate Considering Inter and Intralaminar Damage <u>Mohd Suhairil Meon</u> , N.H. Mohamad Nor, S. Shawal, J.B. Saedon, M.N. Rao, K.-U. Schröder <i>Universiti Teknologi MARA</i>
67-69	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>
70-72	Preparation and Characterization of Yttrium Doped Barium-Zirconates at High Temperature Sintering <u>M. Khalid Hossain</u> , Kenichi Hashizume <i>Kyushu University</i>
73-76	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>
77-79	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>
80	Non-uniform Sintering Behavior of Y₂O₃ Ceramics <u>Ji-Hwoan Lee</u> , Byung-Nam Kim, Byung-Koog Jang <i>Kyushu University</i>
81-83	Propagation Mode Retention Using Strongly Coupled Multi-Core Fiber <u>Mahmoud Nasef</u> , Kantaro Fujimoto, Haisong Jiang, Kiichi Hamamoto <i>Kyushu University</i>
84-86	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>
87-88	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>
89-92	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>

93-96	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>
Page	Theme: Electrical Engineering and Optoelectronics
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100-102	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>
103-104	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>
105-106	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>
107-108	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>
109-110	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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