



4th International Exchange and Innovation Conference on Engineering & Sciences
Kyushu University, Fukuoka, Japan
October 18th-19th, 2018

Conference Program

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

Thursday, 18th October 2018			
9:00-9:30	Registration		
09:30-09:35	Welcome Speech	Assoc. Prof. Osama Eljamal IEICES 2018 Chairman	
09:35-09:45	Opening Remarks	Prof. Akira Harata Dean, Interdisciplinary Graduate School of Engineering Sciences (IGSES), Kyushu University	
09:45-10:05	Introduction to IGSES, Kyushu University	Prof. Tanimoto Jun Vice Dean, IGSES, Kyushu University	
10:05-10:35	Keynote Speech	Prof. Chengjun Jing (China) Engineering Thermophysics, University of Sichuan, China	Chair: Assoc. Prof. Andy Spring Co-chair: Ibrahim Maamoun
10:35-11:05	Keynote Speech	Assoc. Prof. Osama Eljamal IGSES, Kyushu University, Japan	
11:05-11:20	Photo session and break		
Session I			
11:20-11:35	Presenter (1)	Phatchada Santawaja	Chemical Engineering, Electrical Engineering, Computer Engineering and Material Science (Chikushi hall) Chair: Jiangyang Liu Co-chair: Ibrahim Maamoun
11:35-11:50	Presenter (2)	Yan Naung Soe	
11:50-12:05	Presenter (3)	František Mikšík	
12:05-13:30	Break		
Session II			
13:30-14:00	Keynote Speech	Prof. Tohru Hada Department of Advanced Environmental Science and Engineering, Kyushu University	
14:00-14:15	Presenter (4)	Kirolosse M. Girgis	Environment & Aerospace engineering (Chikushi hall) Chair: Wojciech Jacek Klich Co-chair: Omar Falyouna
14:15-14:30	Presenter (5)	Mostafa Ali Rushdi	
14:30-14:45	Presenter (6)	Ahmad Hussein bin Abdul Hamid	
14:45-15:00	Presenter (7)	Mahbubul Muttakin	
15:00-15:15	Presenter (8)	Supak Pattaweepaiboon	
15:15-15:30	Presenter (9)	Sami Alkhudhayri	
15:30-15:45	Break		

Session III			
15:45-16:00	Presenter (10)	Solli Dwi Murtyas	<p>Environment Engineering (Chikushi hall)</p> <p>Chair: Kirolosse M.Girgis</p> <p>Co-chair: Ramadan Eljamal</p>
16:00-16:15	Presenter (11)	Tamer S. R. Shubair	
16:15-16:30	Presenter (12)	Sameh Okasha	
16:30-16:45	Presenter (13)	Relebohile Mokete	
16:45-17:00	Presenter (14)	Seiya Takami	
17:00-17:15	Presenter (15)	Omar A. M. Falyouna	
17:15-17:30	Presenter (16)	Kusumaningdyah N.H	
17:30-17:45	Presenter (17)	Hani A. Dakka	
17:45-17:55	Presenter (18)	Ibrahim Maamoun	
Session IV			
15:45-16:00	Presenter (19)	Wojciech Jacek Klich	<p>Material Science, Mechanical Engineering and others (Room 303)</p> <p>Chair: František Mikšík</p> <p>Co-chair: Sami Al-khudairy</p>
16:00-16:15	Presenter (20)	Ali Abdelgawad	
16:15-16:30	Presenter (21)	Helmi Bin Rashid	
16:30-16:45	Presenter (22)	Nik M.M. B. Enier	
16:45-17:00	Presenter (23)	Wan M.S.W. Fauzi	
17:00-17:15	Presenter (24)	Mohd A. Mohd Anuar	
17:15-17:30	Presenter (25)	Jaharah A. Ghani	
17:30-17:45	Presenter (26)	Nursalbiah binti Nasir	
17:45-17:55	Presenter (27)	Sarita Maharjan	
17:45-17:55	Closing Remarks		

Friday, 19th October 2018			
Session V			
09:30-10:00	Keynote Speech	Prof. Jun-ichiro Hayashi Institute for Materials Chemistry and Engineering, Kyushu University	
10:00-10:15	Presenter (28)	Hadi Farabi-Asl	Renewable and Electrical & Computer Engineering (Chikushi hall) Chair: Phatchada Santawaja Co-chair: Sameh Okasha
10:15-10:30	Presenter (29)	Anand Mishra	
10:30-10:45	Presenter (30)	Mahmoud Nasef	
10:45-11:00	Presenter (31)	Ramadan M. M. Eljamal	
11:00-11:10	Break		
Session VI			
11:10-11:25	Presenter (32)	Eslam Abubakr	Material Science (Chikushi hall) Chair: Ufuk Erkilic Co-chair: Sameh Okasha
11:25-11:40	Presenter (33)	Navapat Krobkrong	
11:40-11:55	Presenter (34)	Jiangyang Liu	
11:55-12:10	Presenter (35)	Wasim Abass	
12:10-13:30	Lunch		
Session VII			
11:10-11:25	Presenter (36)	Mishra Chhabi	Civil Engineering and Energy Science (Room 303) Chair: Mostafa A. Rushdi Co-chair: Ajaya Ketan Nayak
11:25-11:40	Presenter (37)	Md Kawchar Ahmed Patwary	
11:40-11:55	Presenter (38)	Ananya Tibodee	
11:55-12:10	Presenter (39)	Buyadgie Olexiy	
12:10-13:30	Lunch		
Session VIII			
13:30-14:00	Keynote Speech	Prof. Kee Sung Lee School of Mechanical Engineering, Kookmin University, Korea	
14:00-14:15	Presenter (40)	Mohd H. M. Norli	Mechanical Engineering (Chikushi hall) Chair: Amr M.M. Ismail Co-chair: Relebohile Mokete
14:15-14:30	Presenter (41)	Indri Yaningsih	
14:30-14:45	Presenter (42)	Alias bin M.Saman	
14:45-15:00	Presenter (43)	Zulkifli bin Mohamed	
15:00-15:15	Presenter (44)	Mohd H. B. Mohd Noh	
15:15-17:15	Poster session (3rd Floor, C-CUBE Building)		
17:30-17:30	Closing remarks, announcement of best presentations and awards (Chikushi hall)		Prof. Seigi Mizuno Vice Dean, IGSES, Kyushu University

Sessions Schedule

Session I - Chemical Engineering, Electrical Engineering, Computer Engineering and Material Science	
11:20-11:35	The effect of ZSM-5 framework in non-oxidative coupling of methane <u>Phatchada Santawaja</u>
11:35-11:50	ADetect: Hybrid Analysis Feature Extraction for Android malware Detection <u>Yan Naung Soe</u>
11:50-12:05	Material Selection for Advanced Adsorption Thermal Storage Systems <u>František Mikšík</u>

Session II - Environment & Aerospace engineering	
14:00-14:15	Long-Term Variation of the Solar Wind Effects on South Atlantic Anomaly (SAA) using Tsyganenko Model <u>Kirolosse M. Girgis</u>
14:15-14:30	Simulation of a Tether of a Kite Power System Using a Lumped Mass Model <u>Mostafa Ali Rushdi</u>
14:30-14:45	Wake Modifications In Confined Flows Due To The Presence Of A Downstream Cylinder In Staggered Arrangement <u>Ahmad Hussein bin Abdul Hamid</u>
14:45-15:00	Experimental study of CO₂ adsorption kinetics onto activated carbon <u>Mahbubul Muttakin</u>
15:00-15:15	A spirooxazine-based chemical sensor for the highly selective detection of Fe³⁺ ion in drinking water <u>Supak Pattaweepaiboon</u>
15:15-15:30	Removal of boron from aqueous solutions using MgAl composition <u>Sami Alkhudhayri</u>

Session III - Environment Engineering	
15:45-16:00	Adapting Buildings for Climate Change: Will Indonesian Traditional Houses Shift to Zero Energy Buildings? <u>Solli Dwi Murtyas</u>
16:00-16:15	Nano-Fe/Cu particles for the remediation of cesium contaminated solutions <u>Tamer S. R. Shubair</u>
16:15-16:30	nZVI@TiO₂ Hetero-interface Activity for NO₃⁻ Removal as Water Remediation Application <u>Sameh Okasha</u>
16:30-16:45	Inspection of Iron-Copper Bimetal Performance in Chemically Altered Atmosphere <u>Relebohile Mokete</u>
16:45-17:00	Phosphorus Removal by using Nano-scale Iron Materials <u>Seiya Takami</u>
17:00-17:15	Behavior of dental composite materials in sterilized and non-sterilized landfill leachate <u>Omar A. M. Falyouna</u>
17:15-17:30	The Productive Space Home-Based Enterprise of Kampung Kota Settlement – A Case Study Kampung Kenteng Surakarta <u>Kusumaningdyah N.H</u>

17:30-17:45	Recreational seawater quality of the northern region of Gaza Strip beaches <u>Hani A. Dakka</u>
17:45-17:55	Enhancement of Nanoscale Zero-Valent Iron Stability in Aqueous Solution Via Metal Hydroxide Coating <u>Ibrahim Maamoun</u>
Session IV - Material Science, Mechanical Engineering and others	
15:45-16:00	Influence of supercritical drying on thermoelectric properties of Zinc Oxide <u>Wojciech Jacek Klich</u>
16:00-16:15	Negative Bias Effects on the Mechanical Properties of Ultrananocrystalline Diamond on Cemented Carbide Substrate by Coaxial Arc Plasma Deposition <u>Ali Abdelgawad</u>
16:15-16:30	Advanced Motorcycle Riding Simulation: A Case Study of Sleep Deprivation Effects on Motorcyclist Muscle Fatigue <u>Helmi Bin Rashid</u>
16:30-16:45	Effects of Stem Malalignments in Cementless Hip Arthroplasty: A Computational Study <u>Nik M.M. B. Enier</u>
16:45-17:00	Development of Semi-Interface Motorcycle Simulator (SiMS) <u>Wan M.S.W. Fauzi</u>
17:00-17:15	Computational Muscle Driven Knee Simulator for Assessment of Total Knee Replacement Post-Cam Mechanics <u>Mohd A. Mohd Anuar</u>
17:15-17:30	Tool life and surface roughness of A390 Aluminium alloy in milling process under dry and cryogenic conditions <u>Jaharah A. Ghani</u>
17:30-17:45	Hand Dominance Effect During Right (Accelerator) Throttle Gripping In Riding Simulation <u>Nursalbiah binti Nasir</u>
17:45-17:55	The Influence of Urban Form on Travel Energy Consumption in Kathmandu <u>Sarita Maharjan</u>
Session V - Renewable and Electrical & Computer Engineering	
10:00-10:15	Zero Emission Buildings and Challenges in Japan <u>Hadi Farabi-Asl</u>
10:15-10:30	Mechanical Properties of Components of Nepalese Historical Masonry Buildings <u>Anand Mishra</u>
10:30-10:45	Research on Mode Multiplexer / Demultiplexer by using Optical Waveguides for MDM Transmission System <u>Mahmoud Nasef</u>
10:45-11:00	Enhancement of the Reduction and Adsorption Mechanism of nZVI using an effective polyacrylamide as a nonionic polymer <u>Ramadan M. M. Eljamal</u>
Session VI – Material Science	
11:10-11:25	Characterization of phosphorus doped singlecrystalline diamond prepared by Excimer-Laser Irradiations <u>Eslam Abubakr</u>
11:25-11:40	Nanodot MoS₂@3DOM TiO₂ composites for their photocatalytic application <u>Navapat Krobkron</u>

11:40-11:55	Molecular Imprinted Oxide coated ZnO nanowires pre-concentrator for separating nonanal from volatile organic compounds <u>Jiangyang Liu</u>
11:55-12:10	Field Performance Analysis of Optical Ground Wires <u>Wasim Abass</u>
Session VII - Civil Engineering and Energy Science	
11:10-11:25	Mechanical Properties of Components of Nepalese Historical Masonry Buildings <u>Mishra Chhabi</u>
11:25-11:40	DDTTY Measurement of Accelerator-based Neutron via C(d,n) Reaction by 30-MeV Deuteron by means of Multiple-foil Activation Method <u>Md Kawchar Ahmed Patwary</u>
11:40-11:55	Effect of Size-Controlled Graphene Quantum Dots Combined with Ni(OH)₂ for Supercapacitor Application <u>Ananya Tibodee</u>
11:55-12:10	Application of Multicomponent Ejector Refrigerating Systems (MERS) for Product Freezing and Storage <u>Buyadgie Olexiy</u>
Session VIII – Mechanical Engineering	
14:00-14:15	Prediction of Skull Fractures and Brain Injury using Finite Element Analysis <u>Mohd H. M. Norli</u>
14:15-14:30	Performance of regularly spaced helical screw insert on convective heat transfer and fluid flow characteristics of enhanced tube heat exchanger <u>Indri Yaningsih</u>
14:30-14:45	Evaluation of Separating Process for Different Materials by Thermal Stress Cleaving Technique <u>Alias bin M.Saman</u>
14:45-15:00	Assistive Robot Simulator for Multi-Objective Evolutionary Algorithm Application <u>Zulkifli bin Mohamed</u>
15:00-15:15	The Effect of Palm Oil Fly Ash Reinforcement on Recycle Aluminium via Sand Casting <u>Mohd H. B. Mohd Noh</u>

Poster session

3rd floor, C-CUBE Building, Chikushi Campus, Kyushu University

Friday, 19th October 2018 (15:00-17:00)

Poster number	Title
P01	Wind Turbine Load Measurements over a Steep 2D Hill Omar M. A. M. Ibrahim
P02	An Effective Way of Reducing Waveguide Crossovers using 3D Silica Waveguide Sampad Ghosh
P03	Classifier Integration Model with Confusion Table Miso Jang
P04	A Magneto-Optic Kerr Effect Study-Interfacial Magnetism of Iron/Graphene and Graphite Surfaces Mohammad Tawheed Kibria
P05	Low-temperature fabrication and electric properties of Ge MOS capacitors Wei-Chen Wen
P06	Hemispherical Low Blow Impact Treatment Spot-welded Joint Zuraidah Salleh
P07	Specific heat capacity of mangrove and waste palm trunk in raw, carbonized and activated form Amirul Islam
P08	Synthesis and Properties of Perovskite/2D Material Heterostructures Ufuk Erkişçi
P09	Design of Adjustable Ankle Foot Orthosis for Cerebral Palsy Children Eka Noorul Amanina Darwin
P10	Whole building simulation using TRNSYS to predict performance of Indian buildings Ajaya Ketan Nayak
P11	Analysis on the mechanical behavior after thermal fatigue test of environmental barriers coating layer Hyoung-Il Seo
P12 (GA-01)	Toxicological Assessment of First- and Second-hand E-Cigarette Smoking Kazuki Kuga
P13 (GA-02)	Numerical Simulation of the Effects of Thermal Stratification and Surface Shear Stress on Heat Transport at Water Surface in Open-channel Turbulence Flow Kim Sung Jin
P14 (GA-03)	Temperature Dependency Thermal Conductivity of Indium Gallium Zinc Oxide Thin Films with Three Omega Method and Characterizing Microstructure Analysis Khan Md Rauf Ul Karim
P15 (GA-04)	Preparation of High Strength Coke from Indonesian Low-rank Coal and Mechanism of Coke Strength Development Aditya Wibawa
P16 (GA-05)	Monte Carlo Simulation for Optimum Distance between Light Source and Detector for Reflective Pulse Oximetry Device Muhamad Affiq Bin Misran
P17 (GA-06)	Improved Model for the Isosteric Heat of Adsorption and Impacts on the Performance of Heat Pump Cycles

	Fatin Hazwani Binti Mohamad Azahar
P18 (GA-07)	Effect of Stem Design on the Mechanical Behavior of Femur after THA Wu Shun
P19 (GA-08)	Development of Surface Wave Analysis Method: Surface Wave Dispersion Behavior depending Wave Propagation Direction Rezkie Dewi Andajani
P20 (GA-09)	Sputter Erosion Sensor for Lifetime Assessment of Electric Propulsion Yusuke Egawa
P21 (GA-10)	The Effect of Silver and Activated Carbon on Bioleaching of Enargite Concentrate Keishi Oyama
P22 (GA-11)	Optimization of Poly(Norbornene-Dicarboximide)s for Electro-Optic (EO) Application Alisa Bannaron
P23 (GA-12)	Fabrication and Characterisation of Hydroxyapatite Beads and their Inclusion into a PLLA Matrix John James Duckworth
P24 (GA-13)	Surface Relaxation of Cu (410) using LEED Rezwan Ahmed
P25 (GA-14)	3D Finite Difference Time Domain Simulation of Microwave Propagation in a Coaxial Cable Ali Yousefian
P26 (GA-15)	Qualitative and Quantitative Characterization of Nanoporous Materials M L Palash
P27 (GA-16)	Large-area CVD Growth of Uniform Multilayer Hexagonal Boron Nitride as an Excellent Template for 2D Materials Yuki Uchida
P28 (GA-17)	Polymer Homo Junction Diodes Fabricated by Spray Deposition Shin Sakiyama
P29 (GA-18)	Development of a Collective Thomson Scattering System for Laser Produced High-Z Plasmas Produced for EUV Light Sources Yuta Sato
P30 (GA-19)	Interfacial Thermal Conductance Evaluation of Ultrananocrystalline Diamond/Hydrogenated Amorphous Carbon Composite Films by Time-Domain Thermoreflectance Satoshi Takeichi
P31 (GA-20)	Mode Crosstalk Evaluation of Mode Selective Active Multimode Interferometer Laser Diode Based on Wavelength Spectrum Analysis Method Hong Bingzhou
P32 (GA-21)	Fabrication and Characterization of Asymmetric Metal/Ge/Metal Diodes with Ge-on-insulator Substrate Takayuki Maekura
P33 (GA-22)	Understanding the Effect of Ce and Zr on Chemical Expansion in Yttrium Doped Strontium Cerate and Zirconate by Density Functional Theory and High Temperature X-Ray Analysis Takaya Fujisaki
P34 (GA-23)	Dynamic Strain Measurement by Means of Digital Image Correlations Method for Study on Rock Fracture Mechanism Induced by Blasting Yoshiaki Takahashi

P35 (GA-24)	Combined Effects of Operating Variables and Crystallinity of Cellulose on its Pyrolytic Behavior Ni'mah Ayu Lestari
P36 (GA-25)	Direct High Field Side Injection of X Mode for EBW Conversion in QUEST Hatem Omar Amin Mostafa Elserafy
P37 (GA-26)	Demonstration of Hybrid Silicon and EO Polymer Waveguide Modulator Cheng Xiaoyang
P38 (GA-27)	Study on the Formation of Bio-Palladium Nanoparticles using the Extremely Thermo- acidophilic Archaeon, Sulfolobus tokodaii Kitjanukit Santisak
P39 (GA-28)	Preliminary Study on Fluid Inclusions from a Basement-hosted Zn-Pb Deposit in North Sumatra, Indonesia Tomy Alvin Rivai
P40	Miniaturized label free detection of bacterial growth on a chip Seungkyung Park