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Conference Program

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

| Thursday, 18 th 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 | <p>Renewable and Electrical & Computer Engineering</p> <p>(Chikushi hall)</p> <p>Chair: Phatchada Santawaja</p> <p>Co-chair: Sameh Okasha</p> |
| 10:00-10:15 | Presenter (28) | Hadi Farabi-Asl | |
| 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 (Absent) | |
| 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 & Computer Engineering | |
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| 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> |

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| 17:30-17:45 | Recreational seawater quality of the northern region of Gaza Strip beaches <u>Hani A. Dakka (Absent)</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 Krobkong</u> |

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| 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> (Absent) |

Session VII - Civil Engineering and Energy Science

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|-------------|---|
| 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

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|-------------|--|
| 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 | Presenter name | Poster number | Presenter name |
|---------------|------------------------------------|---------------|----------------------------------|
| P01 | Omar M. A. M. Ibrahim | P21 | Keishi Oyama |
| P02 | Sampad Ghosh | P22 | Alisa Bannaron |
| P03 | Miso Jang | P23 | John James Duckworth |
| P04 | Mohammad Tawheed Kibria | P24 | Rezwan Ahmed |
| P05 | Wei-Chen Wen | P25 | Ali Yousefian |
| P06 | Zuraidah Salleh | P26 | M L Palash |
| P07 | Amirul Islam | P27 | Yuki Uchida |
| P08 | Ufuk Erkiş | P28 | Shin Sakiyama |
| P09 | Eka Noorul Amanina Darwin | P29 | Yuta Sato |
| P10 | Ajaya Ketan Nayak | P30 | Satoshi Takeichi |
| P11 | Hyoung-Il Seo | P31 | Hong Bingzhou |
| P12 | Kazuki Kuga | P32 | Takayuki Maekura |
| P13 | Kim Sung Jin | P33 | Takaya Fujisaki |
| P14 | Khan Md Rauf Ul Karim | P34 | Yoshiaki Takahashi |
| P15 | Aditya Wibawa | P35 | Ni'mah Ayu Lestari |
| P16 | Muhamad Affiq Bin Misran | P36 | Hatem Omar Amin Mostafa Elserafy |
| P17 | Fatin Hazwani Binti Mohamad Azahar | P37 | Cheng Xiaoyang |
| P18 | Wu Shun | P38 | Kitjanukit Santisak |
| P19 | Rezkie Dewi Andajani | P39 | Tomy Alvin Rivai |
| P20 | Yusuke Egawa | P40 | Seungkyung Park |