

TECHNICAL SESSION 1
8 DECEMBER 2020
(09.30 AM – 11.15 AM)
(Kuala Lumpur Time Zone – UTC/GMT +8)

WEBEX 1: STRUCTURE AND MATERIALS

1. Time : 09.30 – 09.45 AM
Paper ID : 2
Title : Practical Measurement Method for Structural Large Displacement Using High Speed Camera
Author/s : Ashar Saputra and Aries Putra Purba
Institution : University Gadjah Mada, Indonesia
E-mail : saputra@ugm.ac.id
2. Time : 09.45 – 10.00 AM
Paper ID : 9
Title : Finite Element Analysis of CRTS III Slab Track Model
Author/s : Muchtar Sufaat, Ali Awaludin, Andreas Triwiyono, Iman Satyarno, Akhmad Aminullah, Mukhlis Sunarso and Guntara Muria Adityawarman
Institution : University Gadjah Mada and Wijaya Karya Beton Co. Ltd, Indonesia
E-mail : muchtarsufaat@gmail.com; ali.awaludin@ugm.ac.id
3. Time : 10.00 – 10.15 AM
Paper ID : 10
Title : Effect of Partial Replacement of Cement with Volcanic Ash on Mechanical Behaviour of Mortar
Author/s : Jesika Rahman, Md Shahjalal, Afia Farzana Haque, Lutful Habib, Khadiza Binte Jalal and Mohd Mezanur Rahman
Institution : Military Institute of Science and Technology, University of Texas
E-mail : jesikarahman547@ce.mist.ac.bd ; mdshahjalal0036@gmail.com
4. Time : 10.15 – 10.30 AM
Paper ID : 15
Title : Lateral Load-displacement Behaviours of Reinforced Geopolymer-concrete Column using Finite Element Analysis
Author/s : Kukuh Kurniawan Dwi Sungkono, Iman Satyarno, Henricus Priyosulistyo and Indra Perdana
Institution : Tunas Pembangunan University, University Gadjah Mada
E-mail : kukuhkds.utpska@gmail.com
5. Time : 10.30 – 10.45 AM
Paper ID : 29
Title : Seismic Performance of Instant Steel Frame House for Post-Earthquake Reconstruction
Author/s : Widarto Sutrisno, Iman Satyarno, Ali Awaludin, Ashar Saputra and Angga Fajar Setiawan
Institution : University Gadjah Mada
E-mail : widartosutrisno@mail.ugm.ac.id
6. Time : 10.45 – 11.00 AM
Paper ID : 34
Title : Nonlinear Modelling Laminated Petung Bamboo Under Flexural Test Based on ASTM D 143
Author/s : Abdul Dayat Abzarih, Inggar Septhia Irawati and Bambang Suhendro
Institution : Universitas Dayanu Ikhsanuddin, Universitas Gadjah Mada
E-mail : inggar_septhia@ugm.ac.id ; widayat.abzarih@gmail.com

7. Time : 11.00 – 11.15 AM
Paper ID : 38
Title : Numerical Simulation with Finite Element Method of Influence Concrete Surface Preparation to Characteristic Synthetic Wraps
Author/s : Andhika Mahendra A. S. Fajar
Institution : University Gadjah Mada
E-mail : andhikamahendra@mail.ugm.ac.id

WEBEX 2: STRUCTURE AND MATERIALS

1. Time : 09.30 – 09.45 AM
Paper ID : 39
Title : Experimental Investigation of Small-Scale Truss Bridge Model for Vibration-Based Structural Health Monitoring
Author/s : Sukamta Sukamta, Angga Alfiannur, Susilo Adi Widyanto and Han Ay Lie
Institution : Diponegoro University
E-mail : kamt_id@yahoo.com ; anggaalfiannur09@gmail.com
2. Time : 09.45 – 10.00 AM
Paper ID : 51
Title : Parameter Identification of Bouc-Wen Model using Firefly Algorithm
Author/s : Richard Frans, Yoyong Arfiadi and Junaedi Utomo
Institution : Atma Jaya Makassar University, Atma Jaya Yogyakarta University
E-mail : richardfrans.rf@gmail.com
3. Time : 10.00 – 10.15 AM
Paper ID : 57
Title : Investigation of Confined Masonry using Non-Standard Quality of Concrete and Reinforcement
Author/s : Andreas Triwiyono, I Gusti Lanang Bagus Eratodi, Dian Eksana Wibowo and Suprpto Siswosukarto
Institution : Universitas Gadjah Mada, Universitas Pendidikan Nasional, Universitas Negeri Yogyakarta
E-mail : andreas.triwiyono@ugm.ac.id
4. Time : 10.15 – 10.30 AM
Paper ID : 58
Title : Prospective Damper for Existing Low-rise Building at Earthquake-prone Developing Countries
Author/s : Yenny Nurchasanah, Bambang Suhendro and Iman Satyarno
Institution : Universitas Muhammadiyah Surakarta, Universitas Gadjah Mada
E-mail : yenny.nurchasanah@ums.ac.id
5. Time : 10.30 – 10.45 AM
Paper ID : 61
Title : Numerical Modelling of Concrete-Filled Steel Tube Columns under Eccentric Loading
Author/s : Joarder Md Sarwar Mujib, Avijit Pal, Ibriju Ibrahim and Tanvir Mustafy
Institution : Military Institute of Science and Technology, École Polytechnique de Montréal
E-mail : mustafy@ualberta.ca
6. Time : 10.45 – 11.00 AM
Paper ID : 62
Title : Maturity method to predict strength development self-compacting concrete using fly ash to replace a part of Portland composite cement
Author/s : Gidion Turuallo, Harun Mallisa, Nicodemur Rupang and Zet Mallisa

- Institution : Tadulako University
 E-mail : turuallo@yahoo.co.uk
7. Time : 11.00 – 11.15 AM
 Paper ID : 68
 Title : Development of Numerical Model for Highly-Flowable Strain Hardening Fiber Reinforced Concrete (HF-SHFRC) Columns Subjected to Lateral Displacement Reversals and High Axial Loading Level
 Author/s : Wisena Perceka, Wen-Cheng Liao and Li-Wei Tseng
 Institution : Universitas Katolik Parahyangan, National Taiwan University
 E-mail : perceka.wisena@gmail.com

WEBEX 3: STRUCTURE AND MATERIALS

1. Time : 09.30 – 09.45 AM
 Paper ID : 73
 Title : Mechanical Properties of Eco-Friendly Self-Consolidating Concrete Containing Ground Granulated Blast Furnace Slag and Calcined Dolomite
 Author/s : Herry Suryadi Djayaprabha, Ta-Peng Chang, Jeng-Ywan Shih and Hoang-Anh Nguyen
 Institution : Universitas Katolik Parahyangan, National Taiwan University, Ming Chi University of Technology, Cantho University
 E-mail : herry.suryadi@unpar.ac.id
2. Time : 09.45 – 10.00 AM
 Paper ID : 74
 Title : Development of Replaceable Links in Eccentrically Braced Frame Steel Structures
 Author/s : Naomi Pratiwi, Helmy Hermawan Tjahjanto and Muslinang Moestopo
 Institution : Universitas Katolik Parahyangan
 E-mail : naomi.pratiwi@unpar.ac.id
3. Time : 10.00 – 10.15 AM
 Paper ID : 77
 Title : The Evaluation of Six Indonesian Hardwood Species According to SNI 7973:2013
 Author/s : Wiryanto Dewobroto, Christian Gerald Daniel, Ricky Weinata Kurniawan and Au Chuenliana Audi
 Institution : Universitas Pelita Harapan
 E-mail : christian.geralddaniel@gmail.com
4. Time : 10.15 – 10.30 AM
 Paper ID : 81
 Title : Image Analysis of the Color Change on the Concrete Surface under the Change of Temperature and Humidity
 Author/s : Naoki Tosaka, Pengru Deng and Takashi Matsumoto
 Institution : Hokkaido University
 E-mail : tosaka@eis.hokudai.ac.jp
5. Time : 10.30 – 10.45 AM
 Paper ID : 88
 Title : Dynamic Formation of Spontaneous Corrugation on Sand Surface Due to Repeated Loading of Moving Vehicles
 Author/s : Shunji Kanie, Hao Zheng, Kai Hashimoto and Risa Endo
 Institution : Hokkaido University
 E-mail : kanie@eng.hokudai.ac.jp
6. Time : 10.45 – 11.00 AM

- Paper ID : 98
 Title : Assessment and Back Analysis of a Swaying-Jetty in Dumai Indonesia
 Authors : Merdeka Tazakka, Adecar Nugroho and Budiwan Tirta
 Institution : PT Witteveen Bos Indonesia
 E-mail : sanditazakka@hotmail.com
7. Time : 11.00 – 11.15 AM
 Paper ID : 117
 Title : Seismic Assessment of Reinforced Concrete Frame with Unreinforced Masonry infill Walls in Malaysia
 Author/s : Nurbaiah Mohammad Noh, Nur Izzah Aznin, Muhamad Hafizi Mohamed Zin , Muhammad Azamuddin Mohd Gharib, Muhammad Ammar Zahari, and Muhammad Faiz Rushdi
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : baie_7983@yahoo.com

WEBEX 4: SUSTAINABILITY AND BUILT ENVIRONMENT

1. Time : 09.30 – 09.45 AM
 Paper ID : 53
 Title : Seismic Performance Evaluation of Horseshoe Tunnel on Weathered-Sedimentary Rock Formation
 Author/s : Jabar Raikhan Khusna Nur Aji, Angga Fajar Setiawan Setiawan and Teuku Faisal Fathani Fathani, W. Wilopo, I. M. Rey
 Institution : Universitas Gadjah Mada
 E-mail : jabar.raikhan@mail.ugm.ac.id
2. Time : 09.45 – 10.00 AM
 Paper ID : 106
 Title : Sustainable Construction and its Challenges
 Author/s : Adhilla Ainun Musir, Siti Rashidah Mohd Nasir, Siti Hafizan Hassan, Nur Farah Asyikin Abdul Rahim and Nurul Farah Afiqah
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : adhilla.ainun@ppinang.uitm.edu.my
3. Time : 10.00 – 10.15 AM
 Paper ID : 115
 Title : Removal of Nutrients, Organic Matter and Total Suspended Solids from River Water by Adsorption on Chicken Eggshell
 Author/s : Wen-Pei Low, Fung-Lung Chang and Shwu Ying Loo
 Institution : INTI International University
 E-mail : wenpei.low@newinti.edu.my
4. Time : 10.15 – 10.30 AM
 Paper ID : 132
 Title : Effect of Roofing Material on the Quality of Harvested Rainwater
 Author/s : Nordila Ahmad, Mohamad Faiz Nur Izzat Zakaria, Zuliziana Suif, Maidiana Othman and Siti Khadijah Che Osmi
 Institution : Universiti Pertahanan Nasional Malaysia (UPNM)
 E-mail : nordila@upnm.edu.my
5. Time : 10.30 – 10.45 AM
 Paper ID : 145
 Title : Impact of Proposed Bus Rapid Transit (BRT) Peshawar on Modal Shares of Private Modes
 Author/s : Dr. Sameer Ud-Din, Dr. Muhammad Jawed Iqbal, Jawad Mehmood and Nasir Ali
 Institution : National University of Sciences and Technology
 E-mail : sameer_uddin@hotmail.com: sameeruddin@nit.nust.edu.pk

6. Time : 10.45 – 11.00 AM
 Paper ID : 161
 Title : Design of Groundwater Filter Media Using Activated Carbon For Emergency Purpose
 Author/s : Zuliziana Suif, Siti Khadijah Che Osmi, Maidiana Othman, Nordila Ahmad and Adam Muhammad Ezzat Aripin
 Institution : Universiti Pertahanan Nasional Malaysia (UPNM)
 E-mail : zuliziana@upnm.edu.my, sitikhadijah@upnm.edu.my
7. Time : 11.00 – 11.15 AM
 Paper ID : 170
 Title : Prediction of HMA Mixture Performance from Rheological and Rutting Evaluation of Nanopolymer Asphalt Binder
 Author/s : Ekarizan Shaffie, Ahmad Kamil Arshad, Juraidah Ahmad, Wardati Hashim, Ramadhansyah Putra Jaya, Khairil Azman Masri and Mohd Amin Shafii, Haryati Yacoob
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : eka@uitm.edu.my

WEBEX 5: CONSTRUCTION MANAGEMENT

1. Time : 09.30 – 09.45 AM
 Paper ID : 49
 Title : Construction Supply Chains for Strategic Materials of Building Contractors in Greater Bandung
 Author/s : I Made Bhisma Pranandya, F S C S Maisarah, and Muhamad Abduh
 Institution : Institut Teknologi Bandung
 E-mail : imb.pranandya@gmail.com
2. Time : 09.45 – 10.00 AM
 Paper ID : 75
 Title : Social Sustainability In Education: An Insight Into The Civil Engineering Curricular
 Author/s : Nurul Elma Kordi, Sheila Belayutham, Che Khairil Izam Che Ibrahim and Nur Shuhada Nor Shahrudin
 Institution : Universiti Teknologi MARA
 E-mail : elma8207@uitm.edu.my
3. Time : 10.00 – 10.15
 Paper ID : 96
 Title : Legacy of the Games: The Urban Transformation of the Host City - The Pre-Game, Game and Post-Game Phase
 Author/s : Shivangi Varma and Himanshu Sanghani
 Institution : Sushant School of Art and Architecture
 E-mail : shivangivarma.sv@gmail.com
4. Time : 10.15 – 10.30 AM
 Paper ID : 124
 Title : Cost Structure Identification for Third-Party Logistics Services in Construction Projects
 Author/s : Fauziah Shanti Cahyani Siti Maisarah and Muhamad Abduh
 Institution : Institut Teknologi Bandung
 E-mail : fauziah.scs.maisarah@gmail.com
5. Time : 10.30 – 10.45 AM
 Paper ID : 135
 Title : Constraint and Fault Tree Analysis in Safety Construction System Integration

- Author/s : Fitri Nugraheni, Adwitya Bhaskara and Alvian Purbiantoro
Institution : Universitas Islam Indonesia, Universitas Teknologi Yogyakarta
E-mail : fitri.nugraheni@uii.ac.id
6. Time : 10.45 – 11.00 AM
Paper ID : 154
Title : Identifying Competency of Housing Construction Personnel in Indonesia
Author/s : Albani Musyafa', Dhanoe Seto Nugroho and Nelly Buldan Afifa Hidayati
Institution : Universitas Islam Indonesia
E-mail : 955110102@uii.ac.id ; 17511193@students.uui.ac.id
7. Time : 11.00 – 11.15 AM
Paper ID : 155
Title : Experiment to Determine Labour Needs in Brick Work with Space Mould Tools
Author/s : Albani Musyafa', Irsyad Hanif Ansori and Muchammad Rizky Anugerah
Institution : Universitas Islam Indonesia
E-mail : 955110102@uii.ac.id ; 17511078@students.uui.ac.id

TECHNICAL SESSION 2
8 DECEMBER 2020
(15.00 PM – 16.45 PM)
(Kuala Lumpur Time Zone – UTC/GMT +8)

WEBEX 1: STRUCTURE AND MATERIALS

1. Time : 15.00 – 15.15 PM
Paper ID : 118
Title : High Temperature Performance of Concrete Incorporating Recycled Glass Powders
Author/s : Joarder Md Sarwar Mujib, Nayeem Ahmed Shuvo, Abu Bakar Siddique Ishmam and Tanvir Mustafy
Institution : Military Institute of Science and Technology, University of Alberta
E-mail : mustafy@ualberta.ca ; nayeemahmedshuvo@gmail.com
2. Time : 15.15 – 15.30 PM
Paper ID : 119
Title : The effect of Palm Oil Fuel Ash (POFA) and Steel Fiber Addition to the Mechanical Properties of Ultra High-Performance Concrete (UHPC)
Author/s : Hafizuddin Zakare, Anizahyati Alisibramulisi, Muhd Norhasri Muhd Sidek, Aidan Newman, Nadiah Saari, Suraya Hani Adnan and Norshariza Mohamad Bhkari
Institution : Universiti Teknologi MARA (UiTM) & Universiti Tun Hussein Onn Malaysia
E-mail : aniz.9949@gmail.com ; aidan.newman@gmail.com
3. Time : 15.30 – 15.45 PM
Paper ID : 120
Title : Investigation on Fire Resistance of Concrete Incorporating Recycled Ceramic Fine Aggregate
Author/s : Joarder Md Sarwar Mujib, Md. Maruf Hasan, Md. Rasel Molla, Tahsin Md. Zahid and Tanvir Mustafy
Institution : Military Institute of Science and Technology, University of Alberta
E-mail : mustafy@ualberta.ca ; marufhasan85611@gmail.com
4. Time : 15.45 – 16.00 PM
Paper ID : 123
Title : Image Analysis on the Deformation Behaviors of RC Beams with Simulated Deteriorations under Moving Wheel Load Fatigue
Author/s : Takamasa Nagai, Ko Kakuma, Hiroaki Nishi, Pengru Deng and Takashi Matsumoto
Institution : Hokkaido University, Hokkaido Regional Development Bureau, Civil Engineering Research Institute for Cold Region
E-mail : nagai-t@eis.hokudai.ac.jp
5. Time : 16.00 – 16.15 PM
Paper ID : 129
Title : Investigation of Catalysed Biomass Thermoelectric Concrete with Palm Oil Fuel Ash
Author/s : Hoong Pin Lee, Wan-Foong Chak, , Kar-Loke Teow, Wen-Zhang Lee, Nurharniza Binti Abdul Rahman, Abdullah Zawawi Awang
Institution : INTI International University & College
E-mail : hoongpin.lee@newinti.edu.my
6. Time : 16.15 – 16.30 PM
Paper ID : 131
Title : Examination on the Processes of Structural Performance Evaluation of SRC Deep Beams by FEA with NDT Results
Author/s : Motonori Yasui, Pengru Deng and Takashi Matsumoto
Institution : Hokkaido University
E-mail : motonori@eis.hokudai.ac.jp

7. Time : 16.30 – 16.45 PM
Paper ID : 136
Title : Development of Time Histories Based on Shallow Crustal Earthquake Sources Considering the New Version of the Indonesian Earthquake Map
Author/s : Wisnu Erlangga, Mochamad Teguh and Imam Trianggoro Saputro
Institution : Universitas Islam Indonesia
E-mail : wisnuuangga@gmail.com

WEBEX 2: STRUCTURE AND MATERIALS

1. Time : 15.00 – 15.15 PM
Paper ID : 151
Title : Bamboo Reinforced Concrete Beam
Author/s : Nurharniza Abdul Rahman, Choo Li Rong and Lee Hoong Pin
Institution : INTI International University & College
E-mail : nurharniza.rahman@newinti.edu.my
2. Time : 15.15 – 15.30 PM
Paper ID : 160
Title : Shear Strength Parallel to Grain for Selected Malaysian Tropical Timber According to BS EN408
Author/s : Norshariza Mohamad Bhkari, Lum Wei Chen, Zakiah Ahmad, Anizahyati Alisibramulisi and Muhammad Shaiful Nordin
Institution : Institute for Infrastructure Engineering and Sustainable Management (IIESM), Universiti Teknologi MARA (UiTM)
E-mail : norsharizamb@gmail.com
3. Time : 15.30 – 15.45 PM
Paper ID : 163
Title : Effect of Pineapple Leaf Fibre as Additional Material in Concrete Mixture
Author/s : Siti Khadijah Che Osmi, Noor Aina Misnon, Suriyadi Sojipto, Hapsa Husen and Faridah Hanim Khairuddin
Institution : Universiti Pertahanan Nasional Malaysia (UPNM)
E-mail : sitikhadijah@upnm.edu.my
4. Time : 15.45 – 16.00 PM
Paper ID : 172
Title : Flexural Behaviour of SCC Beams with Different Shear Span to Effective Depth Ratio
Author/s : Oh Chai Lian, Md Zain Mohd Raizamzamani, Norrul Azmi Yahya, Lee Siong Wee and Balqis Mohd Yunos
Institution : Universiti Teknologi MARA (UiTM)
E-mail : chailian@uitm.edu.my
5. Time : 16.00 – 16.15 PM
Paper ID : 176
Title : Flexural Strength and Ductility of Green Engineered Cementitious Composites Containing High Volumes of Fly Ash
Author/s : Siong Wee Lee, Mohd Raizamzamani Md Zain, Chai Lian Oh, Norrul Azmi Yahya and Ching Hua Goh
Institution : Universiti Teknologi MARA (UiTM)
E-mail : leesiongwee@uitm.edu.my
6. Time : 16.15 – 16.30 PM
Paper ID : 177
Title : An Experimental Study on The Influence of Ground Granulated Blast-furnace Slag (GGBS) on Bending Strength of Green Engineered Cementitious Composites

- Author/s : Mohd Raizamzamani Md Zain, Oh Chai Lian, Lee Siong Wee and Norrul Azmi Yahya
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : raizam@uitm.edu.my
7. Time : 16.30 – 16.45 PM
 Paper ID : 188
 Title : Dynamic Analysis Verification of Double-span Steel Beam under an Instantaneous Loss of Support Using Finite Element Method
 Author/s : Nur Ezzaryn Asnawi Subki, Hazrina Mansor, Yazmin Sahol Hamid and Gerard A. R. Parke
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : nurezzaryn@gmail.com

WEBEX 3: STRUCTURE AND MATERIALS

1. Time : 15.00 – 15.15 PM
 Paper ID : 206
 Title : Ettringite: Influence of Steam Curing and Excessive Sulphate Content
 Author/s : Balqis Md Yunus, Muhammad Saiful Hidayat Mohd Kadari and Mohd Raizamzamani Md Zain
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : bmdyunus@gmail.com
2. Time : 15.15 – 15.30 PM
 Paper ID : 207
 Title : Geoforensic Investigation of Cavity and Settlement for Abutment Bridge Using Electrical Resistivity Imaging
 Author/s : Abdul Samad Abdul Rahman and Ismacahyadi Bagus Mohamad Jais
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : kempass@hotmail.com
3. Time : 15.30 – 15.45 PM
 Paper ID : 210
 Title : Strength Prediction of Normal Concrete Beam with Corner Notch
 Author/s : Mohd Hilton Ahmad and Noor Yasmin Zainor
 Institution : Universiti Tun Hussein Onn Malaysia
 E-mail : hilton@uthm.edu.my
4. Time : 15.45 – 16.00 PM
 Paper ID : 216
 Title : Structural Condition Assessment of A Log Bridge under Heavy Traffic Load (Case Study : 100 Tons Gas Engine Delivery in Central Borneo Project)
 Author/s : Angga Trisna Yudhistira, Angga Setiawan, Irfani Nurul Huda, Ali Awaludin and Budi Suanda
 Institution : PT.PP (Persero) Tbk, University Gadjah Mada
 E-mail : anggatrisna1212@gmail.com
5. Time : 16.00 – 16.15 PM
 Paper ID : 217
 Title : The Application of Inserted Steel Pipe as an Alternative Confinement Design in Reinforced Concrete Column Plastic Hinge Regions
 Author/s : Johannes Januar Sudjati, Iman Satyarno, Andreas Triwiyono, Bambang Supriyadi and Angga Fajar Setiawan
 Institution : Universitas Atma Jaya Yogyakarta, Universitas Gadjah Mada
 E-mail : januar.sudjati@uajy.ac.id
6. Time : 16.15 – 16.30 PM

- Paper ID : 240
 Title : Seismic Performance Comparison of Pile Supported Slab Viaduct with PHC Pile and RC Column Bored Pile in South Part of Java Island
 Author/s : Muhamad Fauzi Darmawan, Angga Fajar Setiawan, Iman Satyarno, Ali Awaludin and Bonifacius Adiguna Yogatama
 Institution : Universitas Gadjah Mada
 E-mail : fauzi.d@mail.ugm.ac.id
7. Time : 16.30 – 16.45 PM
 Paper ID : 241
 Title : Finite Element Analysis for Developing Multi-direction Crossing Web Type Shear Panel Damper
 Author/s : Bagas Nuralim Utama, Angga Fajar Setiawan, Iman Satyarno, Ali Awaludin and Guntara Muria Adityawarman
 Institution : Universitas Gadjah Mada
 E-mail : imansatyarno@ugm.ac.id ; bagas.n.u@mail.ugm.ac.id

WEBEX 4: SUSTAINABILITY AND BUILT ENVIRONMENT

1. Time : 15.00 – 15.15 PM
 Paper ID : 171
 Title : Study on Nitrogen Removal Capability of Selected Regional Sewage Treatment Plants in Klang Valley
 Author/s : Suzana Ramli, Jurina Jaafar and Raja Baharudin Raja Mamat
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : suzana799@uitm.edu.my
2. Time : 15.15 – 15.30 PM
 Paper ID : 198
 Title : Sustainable use of Plastic Waste on Laterite Soil as Stabilizer
 Author/s : Nurul Ibrahim, Tan Jia Jun Jia Jun, Muhammad Irfan Shahrin and Nur'Ain Mat Yusof
 Institution : INTI International University
 E-mail : nurulain.ibrahim@newinti.edu.my
3. Time : 15.30 – 15.45 PM
 Paper ID : 208
 Title : Exploration of Palm Kernel use in Construction: A Review
 Author/s : Donald Kwabena Dadzie, A K Kaliluthin and D Raj Kumar
 Institution : B.S.Abdur Rahman Crescent Institute of Science and Technology, Annamalai University
 E-mail : dadzie_civil_2019@crescent.education,
4. Time : 15.45 – 16.00 PM
 Paper ID : 220
 Title : Evaluation of the Physical and Mechanical Properties of Concrete with Partial Replacement of Coarse Aggregates with Epoxy-Based E-waste (EBEW)
 Author/s : Joseph Berlin Juanzon and Jaime Aquino
 Institution : University of the City of Manila, Commission on Higher Education
 E-mail : jbjuanzon@yahoo.com
5. Time : 16.00 – 16.15 PM
 Paper ID : 228
 Title : The Potential of Plastic Waste as Building Material
 Author/s : Chong Lih Yen, Myzatul Aishah Kamarazaly, Soon Lam Tatt, Nurulhuda Hashim, Shirley Chin Ai Ling and Azrina Md Yaakob
 Institution : Taylor's University
 E-mail : MyzatulAishah.Kamarazaly@taylors.edu.my ; lihyen@outlook.com

6. Time : 16.15 – 16.30 PM
 Paper ID : 235
 Title : Identification Characteristic of Energy Efficient Timber House
 Author/s : Febriane Paulina Makalew, Rilya Rumbayan and Novatus Senduk
 Institution : Manado State Polytechnic
 E-mail : febriane.makalew@sipil.polimdo.ac.id
7. Time : 16.30 – 16.45 PM
 Paper ID : 258
 Title : The Effect of Dominant Rainfall Duration on the Planning of Dimensions of Infiltration Well and the Reduction of Surface Runoff
 Author/s : Sri Amini Yuni Astuti and Dinia Anggraheni
 Institution : Universitas Islam Indonesia
 E-mail : amini_yuni@uii.ac.id

WEBEX 5: CONSTRUCTION MANAGEMENT

1. Time : 15.00 – 15.15 PM
 Paper ID : 187
 Title : Development of Entry Mode Assessment Criteria (EMAC) Model for Malaysian Construction Companies to Sustain in International Operations
 Author/s : Norizzati Ibrahim, Che Maznah Mat Isa and Nur Izzati Abd Rani
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : norizzati_ibrahim@yahoo.com.my ; izzati6752@uitm.edu.my
2. Time : 15.15 – 15.30 PM
 Paper ID : 194
 Title : Automated Web-based Condition Survey System for Heritage Monuments using Deep Learning
 Author/s : Lukman E Mansuri and D A Patel
 Institution : Sardar Vallabhbhai National Institute of Technology, Surat
 E-mail : erlukman@gmail.com
3. Time : 15.30 – 15.45 PM
 Paper ID : 204
 Title : Developing Indicators of Green Operation and Maintenance of Green Supply Chain Management in Construction Industry
 Author/s : Mochamad Agung Wibowo, Naniek Utami Handayani and Nur Farida
 Institution : Diponegoro University
 E-mail : agung.wibowo@ft.undip.ac.id
4. Time : 15.45 – 16.00 PM
 Paper ID : 205
 Title : Proposed Workflow of 3D Modelling conversion and enhancement in Quantity Surveying Profession
 Author/s : Lam Tatt Soon, Hasnanywati Hassan, Nazirah Zainul Abidin, Myzatul Aishah Kamarazaly, Boon Tik Leong and Kenn Jhun Kam
 Institution : Taylor's University, Universiti Sains Malaysia
 E-mail : lamtatt.soon@taylors.edu.my
5. Time : 16.00 – 16.15 PM
 Paper ID : 223
 Title : Industry 4.0 in the Malaysian Construction Industry and its Adoption Challenges
 Author/s : Mohd Afiq Azinuddin Bin Tayib, Nor Azmi Bakhary and Che Khairil Izam Bin Che Ibrahim
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : afiqazinuddin@gmail.com

6. Time : 16.15 – 16.30 PM
Paper ID : 229
Title : Customers' Interests in Sustainable Townships and Smart Home Features in Malaysia
Author/s : Sahithi Ajarapu, Assoc. Prof. Dr. Ir. Che Maznah Mat Isa, Divya Ganesan, Dr. Nur Kamaliah Mustaffa, Prof. Dr. Christopher Nigel Preece and Ahmad Yazed Yahaya
Institution : Veltech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Universiti Teknologi MARA, Abu Dhabi University, Sime Darby Property
E-mail : chema982@uitm.edu.my
7. Time : 16.30 – 16.45 PM
Paper ID : 236
Title : Technology? Financial? Viability or What Challenges and Benefits of Eco and Reflective Roof in Malaysia
Author/s : Leong Boon Tik, Tey Cheng Fern, Soon Lam Tatt, Kam Kenn Jhun and Ang Fuey Lin
Institution : Taylor's University
E-mail : leongboontik@gmail.com

TECHNICAL SESSION 3
9 DECEMBER 2020
(09.30 AM – 11.15 AM)
(Kuala Lumpur Time Zone – UTC/GMT +8)

WEBEX 1: STRUCTURE AND MATERIALS

1. Time : 09.30 – 09.45 AM
Paper ID : 55
Title : Mechanical Properties of Fly Ash Bottom Ash (FABA) Geopolymer Hybrid Concrete using Portland Cement
Author/s : Monita Olivia, Rizky Noviandri, Gunawan Wibisono and Iskandar Romey Sitompul
Institution : Universitas Riau
E-mail : monitaolivia@gmail.com
2. Time : 09.45 – 10.00 AM
Paper ID : 182
Title : The Correlation Between Split Tensile and Flexural Strength with Compressive Strength of Crumb Rubber-Rice Husk Ash Concrete
Author/s : Habib Abdurrahman, Gunawan Wibisono, Mia Qoryati, Iskandar Romey Iskandar and Monita Olivia
Institution : Universitas Riau
E-mail : g.wibisono@eng.unri.ac.id ; habib.abdurrahman@student.unri.ac.id
3. Time : 10.00 – 10.15 AM
Paper ID : 243
Title : Numerical Model of Finned Circular Shear Panel Damper for Multi-direction Seismic Excitation
Author/s : Andika Monanta Emilidardi, Angga Fajar Setiawan, Iman Satyarno and M. Sunarso
Institution : Universitas Gadjah Mada
E-mail : angga.fajar.s@ugm.ac.id ; andika.emilidardi@mail.ugm.ac.id
4. Time : 10.15 – 10.30 AM
Paper ID : 246
Title : Investigation of Fast Connection (Slot Clamp Type) Mechanics for Instant Steel House with Finite Element Analysis: Back to Build Post-Disaster
Author/s : Angga Fajar, Ashar Saputra, Iman Satyarno and L.Himawan
Institution : Universitas Gadjah Mada
E-mail : angga.fajar.s@ugm.ac.id
5. Time : 10.30 – 10.45 AM
Paper ID : 251
Title : Method Assessment of Bridge Conditions Using Vibration Mode Patterns
Author/s : Sukamta Sukamta, Bagus Acung Billahi, Susilo Adi Widyanto and Han Ay Lie
Institution : Diponegoro University
E-mail : bagusacung50@gmail.com
6. Time : 10.45 – 11.00 AM
Paper ID : 253
Title : Quantification of Bacteria Self-Healing Efficiency on Concrete Cracks
Author/s : Hamidah Mohd. Saman, Noorhana Hussain, Mohd. Khairil Iqmal Ghazali and Kartini Kamaruddin
Institution : Universiti Teknologi MARA (UiTM)
E-mail : hamid929@uitm.edu.my
7. Time : 11.00 – 11.15 AM

- Paper ID : 254
 Title : Feasible Design Tensile Capacity of Post-Installed Anchors Based on The New Eurocode 2: Part 4 (2018)
 Author/s : Lieu Thai Ng, Eva S.W. Wong and Daniel T.W. Looi
 Institution : Swinburne University of Technology, Konsortium Malaysia
 E-mail : lthng@swinburne.edu.my
- 8 Time : 11.15 – 11.30 AM
 Paper ID : 67
 Title : Study on Partial Replacement of Cement with Limonite in Mechanical Strength of Mortar
 Author/s : Md. Shahjalal, Jesika Rahman, Afia Farzana, Lutful Habib, Khadiza Binte Jalal and Mohd Mezanur Rahman
 Institution : Military Institute of Science and Technology, University of Texas,
 E-mail : mdshahjalal0036@gmail.com
- 9 Time : 11.30 – 11.45 AM
 Paper ID : 22
 Title : Optimal Sensor Placement for Accelerometer in Single-Pylon Cable-Stayed Bridge
 Author/s : Akhmad Aminullah, Bambang Suhendro and Raka Bagus Panuntun
 Institution : Universitas Gadjah Mada
 E-mail : akhmadaminullah@ugm.ac.id, bsuhendro@ugm.ac.id, raka.bagus.p@mail.ugm.ac.id

WEBEX 2: STRUCTURE AND MATERIALS

1. Time : 09.30 – 09.45 AM
 Paper ID : 261
 Title : The Maximum Allowable Peak Ground Acceleration of a Six Storey Building Based on Micro tremor and Numerical Analyzes
 Author/s : Agustinus Sri Pandu and Henricus Priyosulistyo
 Institution : Universitas Gadjah Mada
 E-mail : priyo_ugm@ugm.ac.id
2. Time : 09.45 – 10.00 AM
 Paper ID : 263
 Title : The Bond Strength and Damping Properties of Mortar Joint using Rubber Tire Crumbs
 Author/s : Restu Faizah, Henricus Priyosulistyo and Akhmad Aminullah
 Institution : Universitas Muhammadiyah Yogyakarta, Universitas Gadjah Mada
 E-mail : restu.faizah@umy.ac.id
3. Time : 10.00 – 10.15 AM
 Paper ID : 265
 Title : Using Calcium Oxide and Accelerator to Control the Initial Setting Time of Mortar in 3D Concrete Printing
 Author/s : Antoni Antoni, David Christian Widjaya, Alexander Ricardo Koentjoro Wibowo, Jimmy Chandra, Pamuda Pudjisuryadi and Djwantoro Hardjito
 Institution : Petra Christian University
 E-mail : antoni@petra.ac.id
4. Time : 10.15 – 10.30 AM
 Paper ID : 266
 Title : Numerical Simulation of Spalling and Moisture Evaporation in Concrete Tunnel Linings Exposed to Fire
 Author/s : Zobaer Saleheen and Renga Rao Krishnamoorthy
 Institution : Universiti Teknologi MARA (UiTM)

- E-mail : shauravce100@gmail.com, rao@uitm.edu.my
5. Time : 10.30 – 10.45 AM
 Paper ID : 267
 Title : Optimization on Geometry Design of Double-Layer Space Trusses
 Author/s : Yazmin Hamid and Nurul Najihah Abd Rahim
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : minbelle@yahoo.com
6. Time : 10.45 – 11.00 AM
 Paper ID : 269
 Title : Numerical Investigation of Structural Behavior of Timber-Glass Composite Wall Panel
 Author/s : Maged Abdullah and Mohd Khairul Kamarudin
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : mkhairul3965@uitm.edu.my ; maged7135@gmail.com
7. Time : 11.00 – 11.15 AM
 Paper ID : 270
 Title : Effect of Palm Oil Bottom Ash (POBA) On Concrete Mechanical Properties of Fresh and Hardened Ultra-High-Performance Concrete (UHPC)
 Author/s : Izzani Farhana Baharudin, Nurul Huda Suliman, Sakhiah Abdul Kudus and Nuradila Izzaty Halim
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : nurul_huda@uitm.edu.my ; ezzanyy96@gmail.com
8. Time : 11.15 – 11.30 AM
 Paper ID : 193
 Title : Effect of Replacement Area Ratio on Bearing Capacity Improvement of Peat Soil Columns Stabilised using MUF-P Polymer Resin
 Author/s : Mohd Nazrin Mohd Daud, Nik Norsyahariati Nik Daud and Jestin Jelani
 Institution : Universiti Putra Malaysia & National Defence University Malaysia
 E-mail : hassan_seth@yahoo.com

WEBEX 3: STRUCTURE AND MATERIALS

1. Time : 09.30 – 09.45 AM
 Paper ID : 272
 Title : Impacts of Steel LNG Tanks Aspect Ratio on Seismic Vulnerability Subjected to Near-Field Earthquakes
 Author/s : Noor Sharari, A. Hokmabadi and R. Xu
 Institution : University of Technology Sydney
 E-mail : noor.sharari@student.uts.edu.au
2. Time : 09.45 – 10.00 AM
 Paper ID : 273
 Title : Load-Displacement Behavior of Soil-Pile Interaction under Lateral Action
 Author/s : Thevaneyan Krishta David and Renga Rao Krishnamoorthy
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : thevaneyan@uitm.edu.my
3. Time : 10.00 – 10.15 AM
 Paper ID : 274
 Title : Shear Failure of Pile in Clay due to Soil- Structure Interaction
 Author/s : Thevaneyan Krishta, Syahrie Safri Peter and Renga Rao Krishnamoorthy
 Institution : Universiti Teknologi MARA (UiTM)

- E-mail : thevaneyan@uitm.edu.my
4. Time : 10.15 – 10.30 AM
 Paper ID : 275
 Title : RC beams Strengthened with Near Surface Mounted Carbon Fiber Reinforced Polymer (CFRP) Plate at Short Term Saltwater Exposure
 Author/s : Amiruddin Mishad, Mohd Hisbany Mohd Hashim, Azmi Ibrahim, Mohammad Hazizi Jamal and Dicken Anak Baboh
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : amiruddinmishad@uitm.edu.my
5. Time : 10.30 – 10.45 AM
 Paper ID : 276
 Title : Assessment on Bonding Strength of Cross Laminated Timber made from Light Red Meranti Manufactured by Vacuum Press Method
 Author/s : Muhammad Shaiful Nordin, Norshariza Mohamad Bhkari, Lum Wei Chen Nazatul Syuhada Zainal and Zakiah Ahmad
 Institution : Malaysian Timber Industry Board (MTIB), Universiti Teknologi MARA (UiTM)
 E-mail : shanacshan@gmail.com
6. Time : 10.45 – 11.00 AM
 Paper ID : 278
 Title : Effect of Kenaf Core to the Physical Properties of Cement-Sand Brick for Non-Load Bearing Walls
 Author/s : Mohd Fadzil Arshad, Nurul Aini Salehuddin, Zakiah Ahmad, Mohd Zaim Mohd Nor and Abdul Hadi Hassan
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : mohdfadzil.arshad@uitm.edu.my, aein86@yahoo.com
7. Time : 11.00 – 11.15 AM
 Paper ID : 279
 Title : Bond Strength of Different Mechanically Rebar-Spliced Embedded in Concrete under Pull Out Test
 Author/s : Nursafarina Ahmad, Nur Fitriah Mohd Rohzi, N.S.N Ain Fatimah Nik Mahmood and M. Hadri Hamidun
 Institution : Universiti Teknologi MARA (UiTM)
 E-mail : nursafarina1131@uitm.edu.my
8. Time : 11.15 – 11.30 AM
 Paper ID : 224
 Title : Influence of solvable connections on the life cycle assessment of a facade system
 Author/s : Leonie Scheuring, Melanie Werner, Franziska Rehde and Bernhard Weller
 Institution : Technische Universität Dresden, Germany
 E-mail : leonie.scheuring@tu-dresden.de

WEBEX 4: SUSTAINABILITY AND BUILT ENVIRONMENT

1. Time : 09.30 – 09.45 AM
 Paper ID : 259
 Title : Evaluation of Hot Mix Asphalt Mixtures Design Modified with Hydrate Lime
 Author/s : Noorfaizah Hamzah, Nur'Ain Mat Yusof, Adnan Derahman and Mustaqim Mohamad
 Institution : Universiti Teknologi MARA
 E-mail : noorfaizah1209@uitm.edu.my ; dradnan@uitm.edu.my
2. Time : 09.45 – 10.00 AM

- Paper ID : 277
 Title : Evaluating the Impact of Junction Type on Emissions Level
 Author/s : Masria Mustafa and Nur Amirah Mohammad Noor
 Institution : Universiti Teknologi MARA
 E-mail : masria@uitm.edu.my
3. Time : 10.00 – 10.15 AM
 Paper ID : 268
 Title : Effectiveness of Waste Glass as Filler in Hot Mix Asphalt
 Author/s : Noorfaizah Hamzah, Nur'Ain Mat Yusof, Adnan Derahman and Ahmad Hafizi Rosely
 Institution : Universiti Teknologi MARA
 E-mail : noorfaizah1209@uitm.edu.my ; nurainyusof@uitm.edu.my

WEBEX 5: CONSTRUCTION MANAGEMENT

1. Time : 09.30 – 09.45 AM
 Paper ID : 238
 Title : Reviewing Quality Control Management of Road Construction Projects
 Author/s : Debby Willar, Anak Agung Diah Parami Dewi and Febriane Paulina Makalew
 Institution : Manado State Polytechnic, Udayana University
 E-mail : debbywillar@gmail.com
2. Time : 09.45 – 10.00 AM
 Paper ID : 260
 Title : Review of Previous Research Methods in Assessing the Benefits of Building Information Modeling (BIM) Investment in the AEC Industry
 Author/s : Jeri Adin Ardani, Christiono Utomo, Yani Rahmawati, and Cahyono Bintang Nurcahyo
 Institution : Sepuluh Nopember Institute of Technology (ITS), Universiti Teknologi Petronas
 E-mail : jeriadinardani@gmail.com