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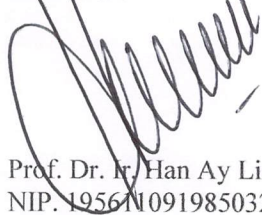
Judul Karya Ilmiah : Development of Acceleration Time Histories for Semarang, Indonesia, Due to Shallow Crustal Fault Earthquakes
 Jumlah Penulis : 3 orang (Windu Partono, Masyhur Irsyam, **Sri Prabandiyani R W**)
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Reviewer I



Prof. Dr. Ir. Han Ay Lie, M.Eng.
 NIP. 195611091985032002
 Unit kerja : Departemen Teknik Sipil FT UNDIP

Reviewer II



Prof. Dr. Ir. Sri Tudjono, MS.
 NIP. 195303091981031005
 Unit kerja : Departemen Teknik Sipil FT UNDIP

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Semarang, 10-2-2020
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Prof. Dr. Ir. Han Ay Lie, M.Eng
 NIP. 195611091985032002
 Unit kerja : Departemen Teknik Sipil UNDIP

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Reviewer



Prof. Dr. Ir. Sri Tudjono, MS
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AIP Conference Proceedings

Volume 1903, 14 November 2017, Article number 090004

3rd International Conference on Construction and Building Engineering: Smart Construction Towards Global Challenges, ICONBUILD 2017; Palembang; Indonesia; 14 August 2017 through 17 August 2017; Code 132045

Development of acceleration time histories for Semarang , Indonesia , due to shallow crustal fault earthquakes (Conference Paper)

Partono, W.^a  Irsyam, M.^b  Wardani, S.P.R.^a  

^aCivil Engineering Department, Diponegoro University, Semarang, 50275, Indonesia

^bCivil Engineering Department, Bandung Institute of Technology, Bandung, 40132, Indonesia

Abstract

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Research on seismic, microzonation of Semarang is still ongoing. Following the research conducted by Team for Revision of Hazard Maps of Indonesia 2010, Lasem fault was the only fault that should be taken into account for seismic mitigation of Semarang. New research conducted by Team for Updating of Seismic Hazard Maps of Indonesia 2016 suggesting four new and closest shallow crustal fault sources (Rawapening, Weleri, Demak and Semarang Faults) which should be taken into account for seismic hazard mitigation of this city. Those four new seismic sources are typical reverse mechanism seismic sources. However Lasem fault is a typical strike slip mechanism seismic source. This paper presents the development of surface acceleration time histories due to three shallow crustal fault (Lasem, Semarang and Demak) earthquake sources with average magnitude 6.5 Mw. This research was performed by implementing de-aggregation hazard analysis, response spectral matching and site response analysis to obtain modified acceleration time histories. The modified acceleration time histories were developed due to inadequate data caused by those three fault sources. Surface acceleration time histories were calculated at 288 boring locations and then separated into three different time histories based on site class soil conditions (hard, medium and soft soil classes). © 2017 Author(s).

SciVal Topic Prominence

Topic: Microtremor | Site effect | Horizontal-to-vertical spectral

Prominence percentile: 86.599 

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Volume Editors: Borgan W.R., Saloma, Victor, Buntoro F.

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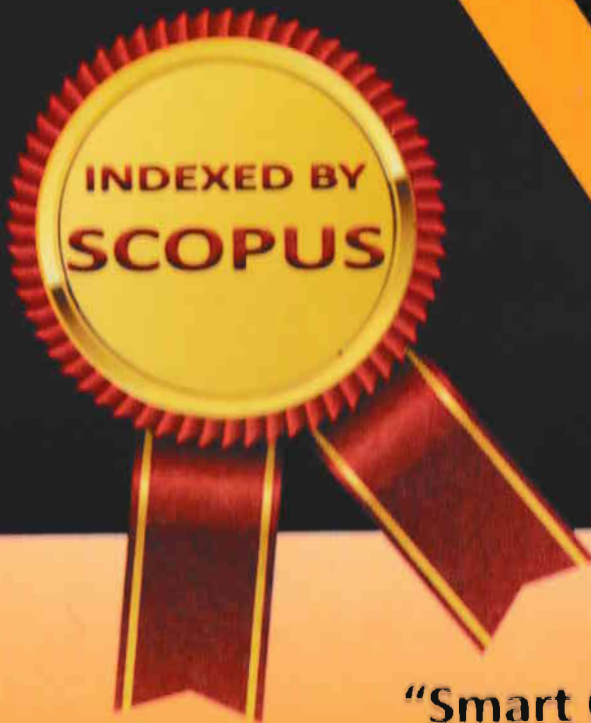
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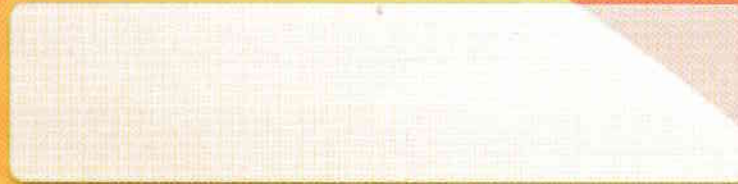


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KEYNOTE SPEAKERS



Prof. Datuk Ir. Dr. Wahid Omar
V.C. Universiti Teknologi Malaysia, Malaysia

Wahid Omar is a Professor of Structural Engineering at the Faculty of Civil Engineering, Universiti Teknologi Malaysia (UTM). He was appointed as the Vice-Chancellor of UTM in September 2013. He obtained his Ph.D. in Structural Engineering from the University of Birmingham, his Master's degree in Bridge Engineering from the University of Surrey, and his Bachelor of Science in Civil Engineering degree from the University of Strathclyde, United Kingdom. He is a Fellow of the Institution of Engineers Malaysia, a registered Professional Engineer with the Board of Engineers Malaysia and a member of various professional bodies. He is also an Honorary Member of the ASEAN Federation of Engineering Organization (AFEO). His areas of expertise include structural assessment, reinforced and pre-stressed concrete and ductility of high strength concrete and project management. Prior to his present appointment, he was the Deputy Vice-Chancellor (Development) (2011-2013) and the Director of the Office of Asset and Development (2008-2011). In his capacity as the then Director of the Office of Asset and Development, he was entrusted with a major task to manage UTM campus development projects worth RM1 billion.

Advocating Mindset for Cooperative Partnership for Better Future of Construction Industry

Construction industry players are known for their low acceptance on the changes. Hence, it is identified that the biggest challenge in the industry is changing the mindset. This paper highlights the importance of transformation in shaping for better future of the industry. Transformation favors innovation and progressive development in the industry and specifically in managing a project. Thus changes in mindset of players with an eye to the future and focus on what is coming are paramount in inculcating the transformation culture in construction eco-system. The key to the success of transformation is the collaborative and cooperative partnering which ensuring the performance of every stage of project delivery. The collaborative, cooperative, and concerted effort of all parties involved in the project create mutual understanding on mission and vision of project. Adopting healthy and harmonious project culture, implementing innovative procurement that emphasis on fair risk sharing. This cooperative partnership should be the future of the project undertaking in the construction industry.

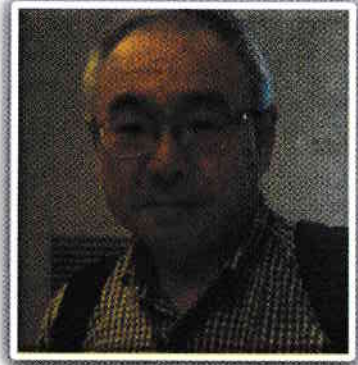


Prof. Dr. Ir. Anis Saggaff, MSCE
Rector of Sriwijaya University,
Indonesia

Prof. Dr. Ir. H. Anis Saggaff, MSCE is the Rector of Sriwijaya University, South Sumatera, Indonesia for period of 2015 – 2019. He was born on October 28th 1962. He got a bachelor degree in Civil Engineering at Sriwijaya University in 1986, obtained his Master of Science in Prestressed Structures in Civil Engineering Department at University of Kentucky USA in 1994, and awarded PhD in Steel Composite and Structure from Universiti Teknologi Malaysia (UTM) in 2007. He has been Lecturer in Civil Engineering Department of Engineering Faculty and a Researcher at Sriwijaya University since 1987. He becomes a Professor in the field of Cold Formed Steel science May 1, 2013. Prof. Dr. Ir. Anis Saggaff, MSCE is a head of Structure and Construction Research Laboratory (SCRL) Sriwijaya University. His research interests are steel, concrete, wood design, composite building structure and composite bridges design. His works have been published in many international and national journals. He also actively participates in national and international conference as Speakers, Steering Committee and Scientific Committee. He participated in several workshops overseas and domestic, such as Short Course; Laminated Wood for Construction in Kyoto, Japan (2002) which held by Wood Research Institute (WRI) University of Kyoto Japan (JSPS – LIPI).

Structural Aspects of Cold-Formed Steel Section Designed as U-Shape Composite Beam

Composite beam construction usually associated with old-style Hot-Rolled Steel Section (HRSS) has proven to act much better in compare with Cold-Formed Steel Section (CFSS) sections due to thicker section. However, the use of cold-formed steel section as composite beam is getting popular to replace HRSS in some aspects of design such as composite beam due to its advantages. The advantages such as lightweight, cost effective and easy to install have contributed to the use of cold-formed steel as a preferred construction material for composite beam design. There is a few technical data available regarding the application of composite systems that incorporates the use of CFSS, despite the potentials of the system in residential and light industrial constructions. This paper presents on experimental tests results which have been conducted using CFSS as composite beam. Composite action of CFSS arranged as double beam with Self-Compacting Concrete (SCC) slab are integrated together with bolted shear connectors were used. A full-scale test comprised of 3 proposed composite beam specimens with bolted shear connector spaced at 300mm interval of grade 8.8 was installed with single nut and washer on the CFS flange, cast to slab and tested till failed. The experimental test results show that the bolted shear connector possessed good ultimate strength and ultimate moment capacities for the proposed composite beam. It was therefore concluded that, bolted shear connectors of 16mm in diameter performed better than the rest of bolted shear connectors.



Prof. Kohei Komatsu, Dr. Agric. SCI
*Research Institute for Sustainable
Humanosphere (RISH), Kyoto
University, Japan*

Prof. Kohei Komatsu, Dr. Agric. SCI. is a Researcher at Laboratory of Structural Function, Research Institute for Sustainable Humanosphere at Kyoto University, Japan and Distinguished Professor of Nanjing Forestry University, Department of Timber Construction, College of Materials Science and Engineering, Nanjing Forestry University, China. He Obtain his Degree of "Doctor of Agriculture" with thesis titled "Application of Fracture Mechanics to Timber Adhesive Joints" in 1977 from Kyoto University. Professor Kohei Komatsu received "Fiscal 2004 Hideo Sugiyama Award" from Japan Timber Engineering Society, for the work titled as "Application and Popularization of Drift-Pinned Joints to Glulam Structures". During his involvement in research, publication and study for the last 40 years, he has published more than 120 indexed journals domestic and international with 371 citations and also he is an active lecturer in many university around the world. His main area of research and expertise is timber structures and joints. His experience in International Conferences is heavily acquired including as a Chairman, Invited speaker and Key-note speaker. He was entrusted as a Principle researcher of the Grant-in-aid for Scientific Research-B2 with the total amount of budget of ¥16,000,000 "Development and Analyses on Strength Enhancement Mechanism of Innovative Wooden Post & Beam Structures in Which Material's Characteristics are Optimized"

Development of Stiffer and Ductile Glulam Portal Frame

Portal frame structures, which are constituted of straight glulam beams and columns connected semi-rigidly by steel insert gusset plate with a lot of drift pins, were the first successful wooden structures widely used in Japan. In addition to this connection system, the author invented also a new type of jointing devise for glulam structures named as "Lagscrewbolt" which had a full threaded portion at inner part to grip wooden member as well as another thread part at the end of shank to connect with other member. The initial type of "Lagscrewbolt" was successfully applied to a various types of glulam buildings which could be rapidly built-up on construction site. Its strength performance, however, was rather brittle therefore the improvement of the ductility was a crucial research subject. In order to give a sufficient ductility on the "Lagscrewbolted joint system", so-called "Slotted Bolted Connection" concept was adopted for making use of large energy dissipation characteristics due to high-tension bolted steel connection with slotted bolt holes. Static & dynamic performance of glulam portal frame specimens was evaluated by static cyclic loading test as well as shaking table test. Current latest form of the jointing system can show very high ductility as well as stable hysteretic cyclic loops by inserting brass-shim between steel-to-steel friction interface.



Prof. Dr. Mohammad Ismail
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 Malaysia*

Prof. Dr. Mohammad Ismail is a Professor at Faculty of Civil Engineering, Universiti Teknologi Malaysia (UTM) where he has been a faculty member since 1986. Currently, he is Deputy Dean of Research, Innovation, Community and Networking at the faculty. Prof. Dr. Mohammad Ismail obtained his B.Sc. (Hons) Civil Eng. from University of Strathclyde, Glasgow, UK, M.Sc. (Eng) from University of Liverpool, UK and Ph.D. from Aston University, UK. His research interests include Concrete Durability, Corrosion of Reinforcement, NDT & Structural Forensic Engineering, Sustainable Construction Materials and Environmental Engineering. With this knowledge, he involved in many consultancy works testing and evaluating bridges, buildings, pump house and stadium. He has published more than 80 papers for various journals, conference proceedings and keynote address. Among other positions he held in UTM for the past 30 years were:, Head of Department of Structures and Materials, Head of Laboratory and Chairman of International Conference and Committees. He is currently an active member of BEM, MSSA, MySET, PERINTIS and PERKOM.

Effects of Climate and Corrosion on Concrete Behaviour

Corrosion of steel is a damaging agent that reduces the functional and structural responsibilities of reinforced concrete structures. Accordingly, reinforced concrete structures exposed to environments that are prone to concrete carbonation or chloride attack coupled with high temperature and relative humidity suffer from accelerated corrosion of reinforcing material. Also, literature proves that climate influences corrosion of concrete, and suggests investigation of impact of corrosion on concrete based on climate zone. Therefore, this paper presents the effects of climate and corrosion on concrete behaviour, using bond strength of concrete as a case study. Concrete specimens were prepared from concrete mix that was infested with 3.5 kgm^{-3} of sodium chloride to accelerate corrosion. The specimens were cured in 3.5% sodium chloride water solution for 28 days before subjecting them to exposure conditions of concrete. Pull-out tests were conducted at time intervals for one year to measure the impact of exposure condition and corrosion on bond strength of concrete. The results show reduction of bond strength of concrete by 32%, 28% and 8% after one year of subjection of the specimens to the unsheltered natural climate, sheltered natural climate, and laboratory ambient environment respectively. The findings indicate that the climate influences corrosion of steel in concrete. Corrosion of the reinforcing steel in the concrete produces rust within the concrete and breeds unwanted tensile stress prior to concrete volumetric expansion.



Prof. Ir. Dr. Mahmood Md Tahir
Universiti Teknologi Malaysia, Malaysia

Prof. Ir. Dr. Mahmood Md. Tahir joined UTM in May 1985 as Assistant Lecturer “A” after completing his first degree from University of Iowa, USA. He taught diploma students from May 1985 to 1988 before pursuing his Master degree at University of Nebraska Lincoln, USA. After completing his master degree (MSc) in Structure Engineering, he continued to serve Faculty of Civil Engineering, UTM from 1989 to 1993. He continued his study for PhD in January 1994 at University of Warwick, United Kingdom and managed to complete his study in May 1997. During his involvement in research and publication for the last 20 years, he has published 105 indexed journals with H-index of 9 and 274 citations. His main areas of research are steel structures, composite structures, and concrete structures. He also has registered as member of Institute Engineer Malaysia (MIEM). At present, he is a Senior Director of Institute for Smart Infrastructure and Innovative Construction, Universiti Teknologi Malaysia.

Economic Aspects of Interlocking Hollow Brick System Designed for Industrialized Building System

Construction industry has moved forward into a technology driven where a transition is in progress from conventional method to a more advanced and mechanised system known as the Industrialised Building System (IBS). However, the need to implement the IBS should be well understood by all construction players such as designer, architect, contraction, erectors and construction workers. Therefore, there is a need to educate all these construction players which should be spearheaded by authorities such as Construction Industrial Development Board where enforcement trough building by laws as well as initiative to those that adopt the IBS in their construction. This paper reports on economic aspects of using interlocking hollow brick system in construction as an alternative method offered for Industrialized Building System. The main objective is to address the economic aspects of using interlocking block system in terms of time, costs, and utilization of manpower and to present some of the experimental tests results related to Interlocking Hollow Brick System (IHBS). Example of savings from the use of IHBS is presented in this paper by comparing the construction of two storey terrace house with build-up area of about 200 square meter with conventional construction method of typical reinforced concrete construction (RCC) compared to IHBS. The comparison shows that the implementation of IHBS can reduce construction time, cost, and utilization of man power up to 26.6% compared to the conventional method. Moreover, the construction time using IHBS can also be reduced by up to 50% as compared to the conventional construction.

COMMITTEES

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PARALLEL SESSIONS
SUBTOPIC: SCE-001 – SCE-046

Ballroom 2 - Session I - 15 August 2017 (13.00 - 15.00)						
No.	Time	Paper ID	Title	Authors	Affiliation	
1	13.00 - 13.15	SCE-001	Experimental Study on The Impact of Rain Water Puddle of Asphalt Pavement Structure	Firdaus Chairuddin	Civil Engineering, Hasanuddin University	
2	13.15 - 13.30	SCE-002	The Effectiveness of Nonlinear Acoustic Testing for Evaluation of Damage in Concrete being Exposed at Elevated Temperature	Rabah Hammoud and Hatem Mrad	Ecole Polytechnique de Montreal, Montreal (Qc), Canada.	
3	13.30 - 13.45	SCE-003	Influence of Partial Pre-stressing Ratio Level to the Energy Dissipation and Ductility of Reactive Powder Concrete Beam-Column Joint Sub-assemblages	Siti Aisyah Nurjannah, Bambang Budiono, Iswandi Imran, and Saptahari Sugiri	Balai Diklat PUPR II, Ministry of Public Works and People Housing	
4	13.45 - 14.00	SCE-004	Analysis of rotational and sliding collapse modes of masonry arches via Durand-Claye's method	Riccardo Barsotti, Danila Aita, and Stefano Bennati	Department of Civil and Industrial Engineering, University of Pisa, Largo Lazzarino, 56122 Pisa, Italy	
5	14.00 - 14.15	SCE-005	Construction Method And Performance of Bugis Traditional House In Wind Disasters	Hartawan Madeali, B. Suhendro, E.Pradipto' and A.Kusumawanto	Architecture Department, Faculty of Engineering, Hasanuddin University, Makassar, Indonesia	
6	14.15 - 14.30	SCE-006	Predicting Shear Critical Behavior of High-Strength Reinforced Concrete Columns Using Finite Element Methods	Harun Alrasyid, Fahrudin Safi, Data Iranata, Pujo Aji, and Yu Chen-Ou	Civil Engineering Department, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia	
7	14.30 - 14.45	SCE-007	Arizu Sulaiman, Noraini Mohd Salleh, Nuraziyati Sukardi, Tan Cher Siang and Anis Saggaff	Experimental Evaluation of Composite Beam-to-Column Joint Using Cold-Formed Steel Sections	UTM Construction Research Centre (UTM-CRC), Faculty of Civil Engineering, Universiti, Teknologi Malaysia, 81310 Johor Bahru, Johor, Malaysia	
8	14.45 - 15.00	SCE-008	Altho Sagara, Adrian Firdaus, Handrawan Anggara and Winda Herviani Putri	Existing Structure Modelling and Retrofitting of Bridge Column Defect	Civil Engineering Department, Faculty of Engineering, Parahyangan Catholic University, Bandung, Indonesia	

Ballroom 2 - Session II - 15 August 2017 (15.15 – 17.15)						
No.	Time	Paper ID	Title	Authors	Affiliation	
1	15.15 - 15.30	SCE-009	Increased of Capacity Integral Bridges with Reinforced Concrete Beams for Single Span	N. Retno Setiati and Septinurriandiani	Institute of Road Engineering, and Development Agency, The Ministry of Public Works and Public Housing, Indonesia	
2	15.30 - 15.45	SCE-010	Wind Tunnel Test of Musi VI Bridge	Robby Permata, Matza Gusto Andika, Syariefatunnisa, Eri Risdhiawan, Budi Hermawan, dan Indra Noordiana	Universitas Bung Hatta, Civil Engineering Department, Sumatera street – Ulak Karang, Padang 25133, Indonesia	
3	15.45 - 16.00	SCE-011	Feasibility of ISO Shipping Container as Transitional Shelter- A Review	Philip Ling Chie Hui and Tan Cher Siang	Faculty of Civil Engineering, Universiti Teknologi Malaysia, Johor Bahru, Malaysia	
4	16.00 - 16.15	SCE-012	Image-Based Non-Destructive Evaluation Method for Building Condition Assessment	Hui Lin Ng, Siow Wei Jaw, Mazlan Hashim, Poi Ngian Shek, and Kar Seong Lim	Geoscience & Digital Earth Centre (INSTeG), Research Institute of Sustainable Environment (RISE), Universiti Teknologi Malaysia (UTM), Johor Bahru, Malaysia	
5	16.15 - 16.30	SCE-013	Effects of bleeding on corrosion of horizontal steel bars in reinforced concrete column specimen	Sandra Nevy, Keiyu Kawaai, Isao Ujike, Nakai Ippei, and Nsama Willick	Department of Civil and Environmental Engineering, Ehime University, 3, Bunkyocho, Matsuyama, Ehime, Japan	
6	16.30 - 16.45	SCE-014	Construction Cost Index : A Case Study In Malaysia	Chai Chang Saar, Loo Siaw Chuing, Aminah Md Yusof, Rozana Zakaria and Theong May Chuan	Department of Structure and Materials, Faculty of Civil Engineering, Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia	
7	16.45 - 17.00	SCE-015	Experimental Behaviour of Beam-Column Connection using Cold-Formed Steel Sections with Rectangular Gusset-Plate	K.M. Aminuddin, Anis Saggaff, and Mahmood Md Tahir	Civil Engineering Department, Faculty of Engineering, Sriwijaya University, Indonesia	
8	17.00 - 17.15	SCE-016	Implementation of Industrialized Building System (IBS) in West Sumatra Construction Industry	Alzahri, Rosli Mohamad Zin, Indra Farni, Edrizal, Elfi, and Saeed Balubai	Faculty of Civil Engineering, Universiti Teknologi Malaysia 81310 Skudai, Johor Bahru, Malaysia	

Ballroom 2 - Session III - 16 August 2017 (08.00 – 10.00)					
No.	Time	Paper ID	Title	Authors	Affiliation
1	08.00 - 08.15	SCE-017	Bond Behavior between Embedded Through-Section Bars and Concrete	Linh Van Hong Bui, Boonchai Stitmannathum, Tamon Ueda and Pitcha Jongvivatsakul	Department of Civil Engineering, Chulalongkorn University, Thailand
2	08.15 - 08.30	SCE-018	Bonding Capacity of GFRP Sheet on Strengthened Reinforced Concrete Beams after Sea Water Immersion	Mufti Amir Sultan and Rudy Djamaluddin	Civil Engineering Department, Khairun University, Gambesi Ternate, Indonesia
3	08.30 - 08.45	SCE-019	Detail Finite Element Formulations for Nonlinear Semi-rigid Steel Frame	Shahrin Mohammad, Ahmad Baharuddin Abd Rahman, Yeong Huei Lee, Chau Khun Ma, Ahmad Zaidon Rais, and Sariffuddin Saad	Faculty of Civil Engineering, Universiti Teknologi Malaysia, 81310 Johor Bahru, Johor, Malaysia
4	08.45 - 09.00	SCE-020	Cyclic Behaviour of Expanded Polystyrene (EPS) Sandwich Concrete Walls	Ari Wibowo	Department of Civil Engineering, Faculty of Engineering, Brawijaya University, Malang, 65149, Indonesia
5	09.00 - 09.15	SCE-021	Evaluation of Different Seismic Analysis Procedures for Concrete Moment-Resistant Frames with Horizontal Re-entrant Corners Irregularity	Anis S. Shatnawi and Laith I. Gharaibeh	Associate Professor, Department of Civil Engineering, The University of Jordan, Amman, Jordan
6	09.15 - 09.30	SCE-022	Sensitivity Analysis of Tall Buildings in Semarang, Indonesia Due to Fault Earthquakes with Maximum 7 MW	Windu Partono, Bambang Pardoyo, Indrastono Dwi Atmanto, Lisa Azizah and Rouli Dian Chintami	Civil Engineering Department, Diponegoro University. 50275 Semarang, Indonesia
7	09.30 - 09.45	SCE-023	Confinement Hoops of Compression Zone in Beam Under Cyclic Loading	Yulita Arni Priastiwi, Iswandi Imran, Nuroji and Arif Hidayat	Civil Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia
8	09.45 - 10.00	SCE-024	Parametric Study of Engineering Wood Encased Concrete-Steel (EWECS) Composite Columns using 3D FE Modelling	Fauzan, Ruddy Kurniawan, and Zev Al Jauhari	Department of Civil Engineering, Engineering Faculty, Andalas University, Indonesia

Meeting Room 1 - Session II - 15 August 2017 (15.15 – 17.15)					
No.	Time	Paper ID	Title	Authors	Affiliation
1	15.15 - 15.30	WAT-010	Flood Hazard Mapping of Palembang City by using 2D Model	Mohammad Farid, Ayu Marlina, and Muhammad Syahril Badri Kusuma	Water Resources Engineering Research Group, Institut Teknologi Bandung, Jalan Ganesha 10, Bandung, Indonesia
2	15.30 - 15.45	ENV-010	Improvement of the Raw Drinking Water Quality from Shallow Well by Ozone Treatment	Qomarudin Helmy and Suprihanto Notodarmojo	Water and Wastewater Engineering Research Group, Faculty of Civil and Environmental Engineering, Institut Teknologi Bandung, Ganesha No. 10, Bandung, West Java, Indonesia
3	15.45 - 16.00	ENV-011	Warehouse Hazardous and Toxic Waste Design in Karingau Balikpapan	Bayu Rendy Pratama and Martheana Kencanawati	Civil Engineering Department, Faculty of Civil and Engineering, Balikpapan University, Balikpapan, Indonesia
4	16.00 - 16.15	ENV-012	Coal Excavation Design for Environmentally Perspective by using Multi-Configuration GPR Antenna	Eddy Ibrahim, R.R Harminuke, Alek Alhadi, and Lilik Hendrajaya	Mining Engineering Departement, University Sriwijaya, 306620 Indralaya, South Sumatera, Indonesia
5	16.15 - 16.30	ENV-013	Land Degradation and Option of Practical Conservation Concepts in Manna Watershed Bengkulu Indonesia	Muhammad Faiz Barchia, Khairul Amri, and Renra Apriantoni	Soil Science Department, Faculty of Agriculture, University of Bengkulu, Indonesia
6	16.30 - 16.45	ENV-015	Effect of Air-flow on Biodrying Method of Municipal Solid Waste in Indonesia	Gabriel Andari Kristanto and Ismi Hanany	Environmental Engineering Study Program, Civil Engineering Department, University of Indonesia Kampus Baru UI Depok, Depok 16424, Indonesia
7	16.45 - 17.00	ENV-016	The Behavior of Coastal Communities on the Management of Domestic Wastewater in Ternate City, North Maluku, Indonesia	Nagu, N and Lessy.M.R	Civil Engineering Department, Faculty of Engineering, Khairun University, Ternate – Indonesia

Meeting Room 1 - Session III - 16 August 2017 (08.00 – 10.00)

No.	Time	Paper ID	Title	Authors	Affiliation
1	08.00 - 08.15	ENV-009	Studies on Fe(III) and Al(III) Adsorption Capacity in Acid Mine Drainage Using Powdered Activated Carbon Ceramic Adsorbent	Tine Aprianti, Siti Miskah, Selpiana, and Subriyer Nasir	Chemical Engineering Department, Faculty of Engineering, Sriwijaya University
2	08.15 - 08.30	ENV-017	Treatment of Chromium Contaminated Soil Using Bioremediation	Ipung Fitri Purwanti, Tesya Paramita Putri and Setyo Budi Kurniawan	Department of Environmental Engineering, Faculty of Civil Engineering and Planning
3	08.30 - 08.45	ENV-018	Analysis of The Effect of Waste's Particle Size Variations on Biodrying Method	Gabriel Andari Kristanto and Masayu Nadiya Zikrina	Environmental Engineering Study Program, Civil Engineering Department, University of Indonesia Kampus Baru UI Depok, Depok 16424, Indonesia
4	08.45 - 09.00	ENV-019	Non Linear Relationship Between Change in Awareness in Municipal Solid Waste Management And Domestic Wastewater Management – A Case of the Jodipan and Ksatrian Village, Malang, East Java	Nida Maisa Zakiyya, Prasanti Widyasih Sarli, and Prayatni Soewondo	Programmed Study of Environmental Engineering, Faculty of Civil and Environmental Engineering, Bandung Institute of Technology, Indonesia
5	09.00 - 09.15	ENV-020	Genetic Characteristic Of SwampBuffalo (Bubalus bubalis) from Pampangan, South Sumatra Based On Blood Protein Profile	Yuanita Windusari, Laila Hanum, and RizkiWahyudi	Department of Biology, Faculty of Mathematics and Natural Sciences, Sriwijaya University, South Sumatera
6	09.15 - 09.30	ENV-021	Provision of healthy latrine for low income community based on community empowerment in Kelurahan Kebonsari, Surabaya City, towards Indonesia ODF in 2019	Eddy Setiadi Soedjono, Nurina Fitriani, Adhi Yuniarto, and I Made Wahyu Wijaya	Department of Environmental Engineering, Faculty of Civil Engineering and Planning, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
7	09.30 - 09.45	ENV-022	Development of Anaerobic Ammonium Oxidation (Anammox) for Biological Nitrogen Removal in Domestic Wastewater Treatment (Case study : Surabaya City, Indonesia)	I Made Wahyu Wijaya and Eddy Setiadi Soedjono	Department of Environmental Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

Meeting Room 1 - Session IV - 16 August 2017 (10.15 – 12.00)

No.	Time	Paper ID	Title	Authors	Affiliation
1	10.15 - 10.30	ENV-023	City face to face with nature	Hendro Prabowo and Mahargyantari P. Dewi	Faculty of Psychology, Gunadarma University, Depok, Indonesia
2	10.30 - 10.45	ENV-024	The Influence Of Sand Mining Towards The Sustainability Of Power Support And Capacity Of Lambidaro River	Hisni Rahmi and Restu Juniah	Mining Engineering Departement, Sriwijaya University, Palembang 30319, Indonesia
3	10.45 - 11.00	ENV-025	Studies on Adsorption Capacity of Clay-Sargassum sp Composite Biosorbent for Cr(VI) Removal in Electroplating Industry Wastewater	Tine Aprianti, Selvia Aprilyanti, Rachmawati Apriani, Sisnayati	Chemical Engineering Department, Faculty of Engineering, Universitas Sriwijaya
4	11.00 - 11.15	ENV-026	Economic Valuation on Erosion Value and Domestic Water Value: Study Sustainability of Water Resources of Coal Mining Environment	Restu Juniah, Rinaldy Dalimi, M. Suparmoko, Setyo S Moersidik, Alex Alhadi	Lecturer of Mining Engineering of Sriwijaya University, Palembang 30139, Indonesia
5	11.15 - 11.30	ENV-027	Color and COD Degradation in Photocatalytic Process of Procion Red by Using TiO ₂ Catalyst under Solar Irradiation	Melati Ireng Sari, Tuty Emilia Agustina, Elda Melwita, Tine Aprianti	Chemical Engineering Department, Engineering Faculty, Sriwijaya University, South Sumatra
6	11.30 - 11.45	ENV-028	Utilization Of Household Organic Compost In Zinc (Zn) Adsorption System	Lia Cundari, Nyiyayu Dita Isvaringga, and Yesica Maharani Arinda	Chemical Engineering Department, Faculty of Engineering, Sriwijaya University, Palembang 30139, Indonesia
7	11.45 - 12.00	ENV-029	Effect of the ferrous (II) and magnesium (II) addition for the bio-hydrogen production from the conversion of palm oil mill effluent (POME) by anaerobic processes	Andri Gumilar, Mindriany Syafila, and Marisa Handajani	Department of Environmental Engineering, Institut Teknologi Bandung, Jl. Ganesha No. 10 Bandung 40132, Indonesia

Meeting Room 1 - Session V - 16 August 2017 (13.00 – 15.00)					
No.	Time	Paper ID	Title	Authors	Affiliation
1	13.00 - 13.15	GEO-002	Geotechnical Engineering Aspects Related to Pidie Jaya-Aceh Earthquake Disaster and Mitigation	Munirwansyah, Halida Yunita, and Reza P. Munirwan	Civil Engineering Department, Engineering Faculty Syiah Kuala University, Banda Aceh – Indonesia
2	13.15 - 13.30	GEO-004	Geological Mapping and Analysis In Determining Resource Resitivitas Limestone rocks in the village of Bukit Bulan and surrounding areas, District Limun, Sorolangun Regency, Jambi Province	Eddy Ibrahim, Budhi Kuswan Susilo, and Obie Mario Dona	Mining Engineering Department, Sriwijaya University, Indonesia
3	13.30 - 13.45	GEO-005	Ekspansif Soil Solution in the Villages	Nusa Setiani Triastuti	Civil Engineering Department, Faculty of Engineering, Krisnadwipayana University
4	13.45 - 14.00	GEO-006	BORE PILE FOUNDATION ON TALL BUILDINGS CLOSED IN THE HERITAGE BUILDING AREA	Nusa Setiani Triastuti	Civil Engineering Department, Faculty of Engineering, Krisnadwipayana University
5	14.00 - 14.15	GEO-007	The Effectiveness of Vacuum Consolidation to Soft Soil Settlement	Norma Puspita, Sartika Nisumanti, and Ari Capri	Department of Civil Engineering, Universitas Indo Global Mandiri, Jl. Jend. Sudirman KM 4 No. 629 Palembang

Meeting Room 1 - Session VI - 16 August 2017 (15.15 – 17.00)

No.	Time	Paper ID	Title	Authors	Affiliation
1	15.15 - 15.30	GEO-008	Development of Acceleration Time Histories for Semarang, Indonesia, Due to Shallow Crustal Fault Earthquakes	Windu Partono, Masyhur Irsyam, and Sri Prabandiyani Retno Wardani	Civil Engineering Department, Diponegoro University, 50275 Semarang, Indonesia
2	15.30 - 15.45	GEO-009	Study of the Effects of Soft Soil Thickness to the Seismic Amplification Factors in Jakarta	Hendriyawan, Dede B. Lukito, and Masyhur Irsyam	Faculty of Civil and Environmental Engineering, Institut Teknologi Bandung Ganesha 10, Bandung 40132 Indonesia
3	15.45 - 16.00	GEO-010	Evaluation of Rainfall-Induces Landslides in Banjarnegara, Central Java, Indonesia Using TRIGRS Model	Agus Setyo Muntohar, Gayuh Aji Prasetyaningtiyas, Rokhmat Hidayat	Geotechnical Engineering Division, Department of Civil Engineering, Universitas Muhammadiyah Yogyakarta, Yogyakarta, Indonesia
4	16.00 - 16.15	GEO-011	Stand Up Time in Tunnel Base On Rock Mass Rating Bieniawski 1989	Refky Adi Nata and Murad	Mining Engineering Departement, STTIND, Padang 25171, Indonesia
5	16.15 - 16.30	GEO-012	Physical and Chemical Characteristics of Fibrous Peat	Yulindasari Sutejo, Anis Saggaff, Wiwik Rahayu, and Hanafiah	Civil Engineering Department, Faculty of Civil Engineering, Universitas Sriwijaya, Inderalaya, Ogan Ilir, Indonesia
6	16.30 - 16.45	GEO-013	Peat Soil Improvement Method Using Woven Bamboo and Cerucuk	Ratna Dewi, Yulia Hastuti, Yulindasari, and Muhammad Arfan	Civil Engineering Department, Universitas Sriwijaya, Palembang, South Sumatera, Indonesia
7	16.45 - 17.00	GEO-014	Hydraulic Conductivity and Compressibility Characteristics of Fibrous Peat	Yulindasari Sutejo, Anis Saggaff, Wiwik Rahayu and Hanafiah	Civil Engineering Department, Faculty of Civil Engineering, Universitas Sriwijaya, Inderalaya, Ogan Ilir, Indonesia

Meeting Room 5 - Session VI - 16 August 2017 (15.15 – 17.00)					
No.	Time	Paper ID	Title	Authors	Affiliation
1	15.15 - 15.30	ABE-023	Evaluation of Day Lighting Performance in Limas House	Widya Fransiska F. Anwar	Department of Architecture, Faculty of Engineering, Universitas Siwijaya
2	15.30 - 15.45	ABE-024	Empowering Low-income Community in Kampong Settlement by Exploring People's Activities in Surrounding Environment	Paulus Bawole and Haryati B. Sutanto	The Faculty of Architecture and Design – Duta Wacana Christian University; Jl. Dr. Wahidin No. 5 – 25, Yogyakarta 55224
3	15.45 - 16.00	ABE-026	ACCULTURATION OF STRUCTURAL AND CONSTRUCTION IN THE HOUSES OF BALINESE MIGRANTS IN DAYAK NGAJU'S HOMELAND, BASARANG JAYA, KAPUAS, CENTRAL KALIMANTAN	Herwin Sutrisno, Gagoek Hardiman, Edward E. Pandelaki, and Theresia Susi	Program of Architecture and Urbanism, Diponegoro University, Semarang 50275-Indonesia
4	16.00 - 16.15	ABE-027	IMPLEMENTATION OF ECOHOUSE AND ECOLIVING CONCEPT IN ARCHITECTURE - SASAK TRADITIONAL SETTLEMENT	Agus Zulkarnain Arief and Achmad Tutut Subadyo	Department of Architecture, Engineering Faculty University of Merdeka Malang
5	16.15 - 16.30	ABE-028	Waqf Private Property Trust Fund as Property Unlock Initiative	Rohaya Abdul Jalil, Maimunah Sapri and Tiong Chai Ping	Centre for Real Estate Studies, Faculty of Geoinformation and Real Estate, Faculty of Islamic Civilization, Universiti Teknologi Malaysia
6	16.30 - 16.45	ABE-029	Contextual Attributes Facilitating Solid Waste Separation at Source Practice among Household in Malaysia	Siti Sujatini, Tresna P. Soemardi, Abimanyu T. Alamsyah, Linda Darmajanti	Architecture Engineering Department , Faculty of Engineering, University of Persada Indonesia, Jl. Salemba Raya 7-9, Jakarta 10340



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