



University of Stuttgart
Germany

EACEF

7th International Conference of Euro Asia Civil Engineering Forum

Green Engineering for Infrastructure and Structural Safety against Hazards

30.09.2019 – 02.10.2019
Stuttgart, Germany

Final Program

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27.09.2019

Organized by:
Faculty of Civil and Environmental Engineering

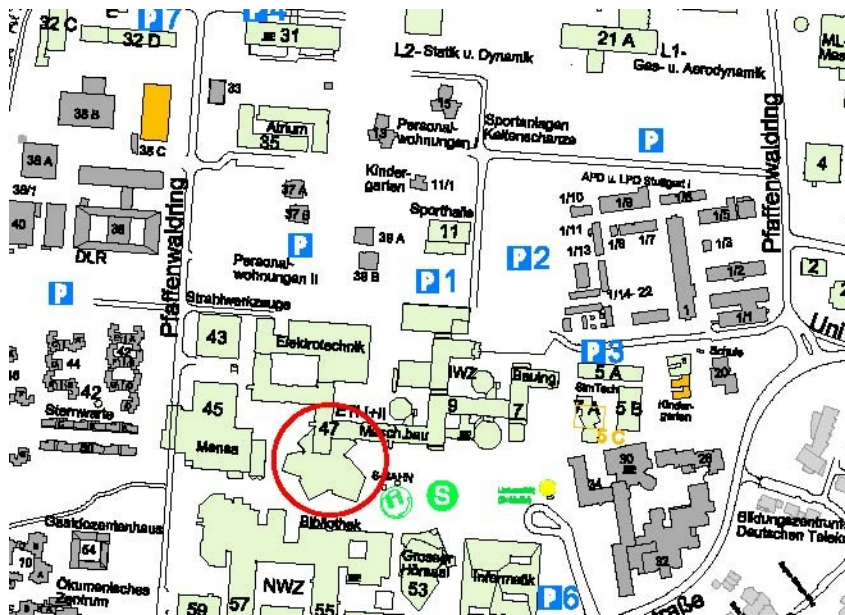
Lead Institute:
Institute of Construction Materials

In cooperation with

Indonesian Universities Consortium



Symposium Location



University of Stuttgart

Pfaffenwaldring 47
70569 Stuttgart

Rooms:

47.03
47.05
47.06
9.11

Special Events:

Welcome Reception

Sunday 29th, 17:00 – 20:00
Location Pfaffenwaldring 4

Symposium Dinner:

Tuesday 1st, 19:00 – 23:00
Location: Maritim Hotel Stuttgart,
Seidenstraße 34,
70174 Stuttgart

Monday 30th

Opening Session

- 8:30** **Introduction and Welcome**
Ressel, W.
Garrecht, H.
Hardjasaputra, H.
Reineck, K.-H.
- 9:40** **Vote of Thanks**
Sharma, A.; Bosnjak, J.
- 9:50** **Key Note Lecture**
Siswanto, A.

10:20 – 10:50 Coffee Break

Session Structural & Construction Engineering 1

- 10:50** **Dynamic behavior of stiffened orthotropic plates subjected to Friedlander blast load**
Alisjahbana, S. W., Alisjahbana, I.; Gan, B. S.; Safrilah, S.; Putra, J. Chandra P.
- 11:10** **Strength calculation method of reinforced concrete structures of Tashkent underground tunnels with different stages of stress condition**
Miralimov, M.
- 11:30** **Analysis of earthquake structure on a traditional wooden house of Mandailing**
Irma, N.N.; Alvan, S.; Winata, H. A.
- 11:50:** **Seismic performance analysis of multi-story RC frames strengthened with RC infill wall**
Sukrawa, M.; Putra, K.; Budiwati, I. A.; Salain, I. M.; Susila, G.; Pringgana, G.
- 12:10** **Seismic hazard analysis for East Malaysia; based on a proposed ground motion prediction equation**
Harith, N. S. H.; Tongkul, F.; Adnan, A.; Shoushtari, A. V.

Session Concrete Engineering 1:

- 10:50** **Eco-durability index of self-compacting concrete incorporating high volume fly ash**
Kristiawan, S. A.; Sangadji, S.; Sunarmasto, S
- 11:10** **Mix design of low-cement concrete with particle packing concept and superplasticizer application**
Antoni, A.; Hardi, E.; Tandean, R. D.; Hardjito, D.

Monday 30th

- 11:30 **Using viscosity-modifying admixture to increase the cohesion of low-cement concrete mixtur**
Antoni, A.; Andreas, A.; Christian, E.; Hardjito, D.
- 11:50 **Impact of the pumping process on the properties of lightweight concrete**
Arkhipkina, O.; Schuler, B.; Stipetič, M.

Session Climate Change and Disaster Management

- 10:50 **Implementation of a disaster management system for local governments in Japan**
Goso, T.; Kakuzaki, T.; Kusayanagi, S.
- 11:10: **Perspectives of climate change adaptation of building areas against heat waves**
Ortlepp, R.; Schiela, D.
- 11:30 **Experimental and numerical comparison of biobased and conventional phase change materials for thermal storage applications**
Lackovic, L.; Garrecht, H.
- 11:50 **A review: adaptation of escape route for a framework of road disaster resilient**
Aminudin, E.; Redzuan, A.; A.; Alzahari, M. R.; Zakaria, R.; Alias, N. E.; Nor Anuar, A.; Muhammad Yuzir, M. A.

Session Sanitation & Environmental Engineering

- 10:50 **Thermal flow simulation for an energy garden building block**
Ramadan, Z., Garrecht, H.
- 11:10 **Decision making tool for retrofitting of existing building for energy reduction in higher learning institution**
Abidin, N.I.A.; Zakaria, R.; Aminuddin, E.; Shamsuddin, S. M.; Mustafa, M.; Khan, J. S.
- 11:30 **Applications of density functional theory to heavy metal binding to magnetic-cored dendrimer**
Kim, H.-R.; Boukhvalov, D. W.; Park, J.-W.
- 11:50 **Environmentally friendly foundation for the sustainability development of infrastructures in swamp area**
Hakam, A.; Srihandayani, S.; Ismail, F.A..1; Asmirza, M S.; Hape, M.M.

12:30 – 13:30 Lunch

Session Structural & Construction Engineering 2

- 13:30 **Crack intensity of the damaged RC beam repaired with epoxy injection using acoustic emission technique**
Soffian Noor M. N.; Noorsuhada M. N., Nizam, K., Ariffaizad, M. M. Noorhazlinda, A. R.

Session Structural & Construction Engineering 2

- 13:30** **Crack intensity of the damaged RC beam repaired with epoxy injection using acoustic emission technique**
Soffian Noor M. N.; Noorsuhada M. N., Nizam, K., Ariffaizad, M. M. Noorhazlinda, A. R.
- 13:50** **Performance of Distributed Optical Fiber Sensors (DOFS) and Digital Image Correlation (DIC) in the monitoring of RC structures**
Bado, M. F.; Kaklauskas, G.; Casas, J. R.
- 14:10** **Ultra-low-power wireless anchor load monitoring system based on Internet of Things technology**
Tong, J.-H.; Lee, T.H.; Lin, Y.
- 14:30** **Ecological construction method by the deployable bridge**
Chanthamanivong, K.; Ario, I.; Yokotani, Y.
- 14:50** **Determining Fragility of Urban Low-to-Mid-Rise Masonry Infilled Building**
Sangadji, S.; Kristiawan, S. A.; Prastiwi, S. I.

Session Geotechnical Engineering 1

- 13:30** **Investigation of the gradation effect on ballast mechanical behaviors by means of discrete element modeling**
Wang, Bo; Martin, Ullrich; Rapp, Sebastian; Schuk, Vital
- 13:50** **The potential of using performance information in the assessment of existing quay walls**
Den Adel, N.; De Gijt, J.G.; Wolters, H.J.; Schweckendiek, T.
- 14:10** **Revitalization of hot spring resorts in Japan through PPP-based geothermal power project**
Aono, F.; Goso, T.; Kato, S.; Nishida, K.
- 14:30** **Consideration of costs and factors of safety for landslide mitigation of the housing infrastructure in Sawahlunto**
Istijono, B.; Hakam, A.; Hardiyansyah, D.; Hape, M.
- 14:50** **Influence of material spatial variability on slope stability in soft rock**
Hsu, S.- C.; Hsieh, T.- P.; Tsai, P.- H.

Session Sustainable Construction Materials 1

- 13:30** **Sustainable steel and composite bridges through increased lifetime by fatigue treatment**
Gölz, L.-M.; Breunig, S.; Kuhlmann, U.
- 13:50** **Effectiveness of using pozzolanic material in concrete for canal blocks in tropical peatland**
Olivia, M.; Sitompul, I. R.; Saputra, E.; Sutikno, S.; Yamamoto, K.
- 14:10** **Mechanical properties of crumb rubber rice husk ash concrete as a rigid pavement material**
Abdurrahman, H.; Wibisono, G.; Qoryati, .M.; Sitompul, I. R; Olivia, M.

Monday 30th

14:30 **Effect of sodium silicate as activator on the fresh and hardened properties of cement-slag blended paste**
Thymotie, A.; Chang, T.-P.; Nguyen, H.-A.

14:50 **Characteristics of geopolymers hybrid concrete in peat water**
Wijaya, M. F.; Olivia, M.; Wibisono, G.; Saputra, E.

Session Construction and Safety Management 1

13:30 **A case study of urban road subsidence induced by the underground connection of the shield tunneling method**
Pan, H. H.; Chen, Y.-H.

13:50 **Application of semiotics for health and safety signs comprehension on construction sites in Yola Metropolis, Nigeria**
Alara, S. A.; Inuwa, I. I.; Gambo, N.

14:10 **Review: Identification of roadmap of fourth construction industrial revolution**
Lau, S. E. N.; Aminudin, E.; Zakaria, R.; Chang Saar, C.; Abidin, N. I. A.; Roslan, A. F.; Abd. Hamid, Z.; Mohd Zain, M. Z.

14:30 **Sustainable operation and maintenance criteria for non-toll road green rating system**
Adzar, J. A.; Zakaria, R.; Aminudin, E.; Abd Rashid, M. H. S.; Munikanan, .V.; Shamsudin, S. M.; Sooria, S. Z.; Hassan, M. M.

15:10 – 15:30 Coffee Break

15:30 -> Visit to MPA, ISWA, LWW

Tuesday 1st

8:30 **Keynote Lecture**
Martin, U.

9:00 **Keynote Lecture**
Garrecht, H.

9:30 **Diamond Sponsor Presentation**
Pregartner, T., Company Fischer

10:00 – 10:30 Coffee Break

Session Structural & Construction Engineering 3

10:30 **Safety reduction in anchor groups due to uneven crack distribution**
Di Nunzio, G.; Muciaccia, G.

Tuesday 1st

- 10:50 **Creep behavior of tension loaded adhesive anchors in non-cracked low strength concrete**
Mahadik, V.; Hofmann, J.
- 11:10 **Parametric study of factors influencing the thermal distribution and load-bearing capacity of bonded anchors directly exposed to fire**
Al-Mansouri, O.; Mege, R.; Pinoteau, N.; Lahouar, A.; Guillet, T.; Rémond, S.
- 11:30 **Precast segmental bamboo reinforced concrete beams with bolted connections subjected to flexural loads: an experimental investigation**
Haryanto, Y.; Hu, H.-T.; Han, A. L.; Wariyatno, N. G.; Sudibyo, G. H.; Hidayat, B. A.; Naqiyah, K.
- 11:50 **Nonlinear finite element analysis of traditional flexural strengthening using betung bamboo (*Dendrocalamus Asper*) on concrete beams**
Hidayat, B. A.; Hu, H. T.; Han, A. L.; Haryanto, Y.; Widyaningrum, A.; Pamudji, G.

Session Concrete Engineering 2

- 10:30 **Interaction between damage and time-dependent deformation of mortar in concrete: 3D FE study at meso-scale**
Gambarelli, S.; Ožbolt, J.
- 10:50 **Fiber-reinforced lightweight foamed concrete panels suitable for 3D printing applications**
Falliano, D.; Sciarrone, A.; De Domenico, D.; Maugeri, N.; Longo, P.; Gugliandolo, E.; Ricciardi, G.
- 11:10 **New method for testing the sedimentation stability of modern concretes at construction sites**
Gecgel, A. S.; Baumert, C.; Garrecht, H.
- 11:30 **Quantitative assessment of interfacial condition of cold joint using surface wave group velocity profile**
Lin, Y.-C.; Cheng, C.-C.; Chiang, C.-H.; Hsu, K.-T.
- 11:50 **Study of mechanical properties of fly ash based geopolymer concrete**
Hardjasaputra, H.; Cornelia, M.; Han, A. L.; Rachmansyah, R.; Pranata Ng, G.; Gunawan, Y.; Surjaputra, I.

Session Construction and Safety Management 2

- 10:30 **Relationship between the construction costs and the reliability index of quay walls**
Wesstein, R.; De Gijt, J.; Heeres, O.; Roubos, A.
- 10:30 **Determining duration of performance-based contracts based on fair payoff for the government and contractors**
Tjendani, H. T.; Oetomo, W.; Wiguna, I P. A.; Anwar, N.
- 11:10 **Exploring the knowledge of prevention through design (ptd) among malaysian civil & structural designers**
Che Ibrahim, C. K. I.; Belayutham, S.; Azmi, E. A.; Hussain, A.

Session Plan EACEF

Monday 30th

Plenary Lectures in V47.03

Coffee Break

9.11

47.06

47.05

Sanitation & Environmental
Engineering

Climate Change & Disaster
Management

Concrete Engineering 1

Structural & Construction
Engineering 1

Lunch

Construction & Safety
Management 1

Sustainable Construction
Materials 1

Geotechnical Engineering 1

Structural & Construction
Engineering 2

Coffee Break

Visit MPA, Laboratories, ISWA, LWW

Tuesday 1st

Keynote Lectures

Coffee Break

Hydraulics, Hydrology &
Water Eng.

Construction & Safety
Management 2

Concrete Engineering 2

Structural & Construction
Engineering 3

Lunch

8:30

10:20

10:50

12:30

13:30

14:50

8:30

10:00

10:30

12:10

13:10	Structural & Construction Engineering 4	Performance Based Design	Geotechnical Engineering 2	Sustainable Construction Materials 2
14:50	Coffee Break			
15:20	Structural & Construction Engineering 5	Concrete Engineering 3	Geotechnical Engineering 3	Transportation Engineering 1
17:00				
19:00	Conference Dinner Hotel Maritim Stuttgart			
Wednesday 2nd				
9:00	Keynote Lectures			
10:00	Coffee Break			
	47.03	47.05	47.06	
10:30	Structural & Construction Engineering 6	Concrete Engineering 4	Construction & Safety Management 3	
12:10	Lunch			
13:10	Structural & Construction Engineering 7	Sustainable Construction Materials 2	Transportation Engineering 2	
14:50	Coffee Break			
15:20				

Tuesday 1st

11:30 **Knowledge requirement theoretical framework for construction procurement management**
Shehu, A. S.; Ibrahim, Y.; Inuwa, I. I.

11:50 **Knowledge, skills and attitudes of civil engineer in Indonesia**
Setiawan, Harijanto

Session Hydraulic, Hydrology and Water Engineering

10:30 **Effect noises removal and spatial resolutions of digital surface model (DSM) in flood inundation model**
Yunika, A.; Kok, M.; De Gijt, J. G.; Huizinga, J.; Ginting, S.

10:50 **An evaluation of the flood diversion project due to extreme rainfall event in Taipei City**
Wu, S.; Jang, J.-H.; Wu, T.; Lin, J.; Li, B.

11:10 **Constructing uncertainty budget for a Two-dimensional hydraulic model**
Ozbey, N.; Gül, U. S.

11:30 **Long-term monitoring of spillway using various NDT techniques -case studies**
Hsu, K.-T; Cheng, C.-C.; Chiang, C.-H.; Ke, Y.-T.; Cheng, J.-S.

12:10 – 13:10 Lunch

Session Structural & Construction Engineering 4

13:10 **Structural system identification on plane frame based on frequency domain decomposition-natural excitation technique (FDD-NEXT)**
Frans, R.; Arfiadi, Y.

13:30 **Structural reliability of rc elements with electric arc furnace slag as recycled aggregates**
Zanini, M. A.; Faleschini, F.; De Stefani, E.; Pellegrino, C.

13:50 **Experimental study and numerical analysis of flexural behaviour of post-fire reinforced concrete beam**
Suryanita, R.; Maizir, H.; Ismeddiyanto, I.; Andriano, R.; Arditama, R.

14:10 **Study on performance of lightweight concrete bricks with a ratio of sand and cement composition**
Maizir, H.; Suryanita, R.; Arditama, R.

14:30 **Local strengthening of anchorages with post-installed (supplementary) reinforcement**
Vita, N.; Sharma, A.; Hofmann, J.

Session Performance Based Design

13:10 **Experimental and numerical investigations on the concrete edge failure of anchor groups of arbitrary configurations**
Bokor, B.; Sharma, A.; Hofmann, J.

Tuesday 1st

- 13:30 Robust composite joints**
Skarmoutsos, G.; Keller, N.; Kuhlmann, U.
- 13:50 A new assessment approach for post-installed anchors used in seismic applications**
Stehle, E.J.; Sharma, A.
- 14:10 Behavioural and functional based design of high-rise public housing project in Jakarta, Indonesia**
Djukardi, A.; Srinaga, F.
- 14:30 Free vibration of orthotropic levy-type solution plates by using SEM**
Kiryu, S.; Alisjahbana, S. W.; Alisjahbana, I.; Gan, B. S.

Session Geotechnical Engineering 2

- 13:10 A case study of slope hazardous mitigation by ground monitoring system**
Yang, B.-H.; Lai, J.; Cheng, C.-F.
- 13:30 The comparison of fly ash and Sinabung ash addition to limestone towards the soil improvement via CBR value**
Hastuty, I. P.; Roesyanto, R.; Rahman, A. F.
- 13:50 Geotechnical behaviour of soft soil in East Java, Indonesia**
Zaika, Y.; Rachmansyah, A.; Harimurti, H.
- 14:10 Some learning cases in the Port of Rotterdam**
De Gijt, J. G.; Brassinga, H.E.; Roubos, A.A.

Session Sustainable Construction Materials 2

- 13:10 Feasability of forecasting ecological performances of products in early development phases**
Hein, H. L.; Schwarte, J.
- 13:30 Treatment of uncertainties in green engineering**
Schwarte, J.; Hein, H. L.
- 13:50 Effect of sustainable building material substitutes with regards to earthquake safety**
Ortlepp, R.
- 14:10 The effect of reinforcement ratio Cantula fiber (Agave Cantula roxb) on tensile strength of textile reinforced concrete**
Purwanto, E.; Kristiawan, S. A.; Safitri, E.; Natsir S., A.

14:50 – 15:20 Coffee Break

Session Structural & Construction Engineering 5

- 15:20 Influence of concrete damage on reinforcement corrosion**
Kuster Maric, M.; Ožbolt, J.; Mandić Ivanković, A.; Bleiziffer, J.; Vlašić, A.; Srbić, M.; Skokandić, D.; Bošnjak, J.; Lacković, L.

Tuesday 1st

- 15:40 **Application of the 3D chemo-hygro-thermo mechanical model on existing bridges exposed to chlorides and mechanical damages**
Kuster Maric, M.; Ožbolt, J.; Balabanić, G.
- 16:00 **Structural behaviour of reinforced concrete (RC) columns under fire**
Lakhani, H.; Ožbolt, J.
- 16:20 **Effect of loss in concrete cover during fire on the predicted temperature distribution**
Lakhani, H.; Hofmann, J.
- 16:40 **Influence of concrete humidity on the temperature development under fatigue compressive loading**
Markert, M.; Birtel, V.; Garrecht, H.

Session Concrete Engineering 3

- 15:20 **Modeling corrosion of steel reinforcement in concrete**
Ožbolt, J.; Balabanic, G.; Orsanic, F.
- 15:40 **Effects of w/b ratio, fly ash and chloride content on corrosion of reinforcing steel**
Phuong, D. T. V.; Sancharoen, P.; Klomjit, P.; Tangtermsirikul, S.
- 16:00 **Numerical study of reinforced concrete slabs under extreme loading conditions: impact and fire**
Ožbolt, J.; Ruta, D.; Irhan, B.
- 16:20 **Making sense of high dimensional concrete data – a statistical approach**
Manoj, A; Narayan, K S B.
- 16:40 **Evaluation on feasibility of fly ash cement mortar as adhesive of post-installed rebar**
Wang, C.-P.; Chuang, Y.-C.; Lin, J.-X.

Session Geotechnical Engineering 3

- 15:20 **Slope structural health monitoring method against rainfall-induced shallow landslide**
Koizumi, K.; Oda, K.; Komatsu, M.; Ito, S.; Tsutsumi, H.
- 15:40 **Effect of confining pressures on the shear modulus of sand treated with enzymatically induced calcite precipitation**
Simatupang, Minson; Sukri, A. Syarif; Nasrul, Nasrul; Sulha, Sulha; Putri, Tryantini
- 16:00 **Microbially induce calcite precipitation as bio grouting by bacillus subtilis on its effect of shear strength parameter effects on organic soil (peat) from Siak Regency Riau Province Indonesia**
Syarif, F.
- 16:20 **Pressurized clay injection method using kaolinite for controlling groundwater of a saturated sand layer**
Komatsu, M.; Takahashi, K.; Takimoto, K.

Tuesday 1st

Session Transportation Engineering 1

- 15:20** **Recognition of track defects through measured acceleration**
Bahamon Blanco, S.; Rapp, S.; Rupp, C.; Liu, J.; Martin, U.
- 15:40** **The behaviour of prestressed concrete sleeper (PCS) sitting on railway track**
Rosli, M. I. F.; Safiuddin, C.M.; Harun, M.; Ahmad, J.; Amin, N.M.; Kay Dora, A.G.
- 15:40** **Determining stiffness modulus by means of different mechanical testing**
Pramesti, F.; Poot, M.; Van de Ven, M.; Molenaar, A.A.A
- 16:00** **ICT implementation of bus public transportation towards green engineering in indonesia**
Sutandi, A. C.; Suriansyah, Y.; Kusliansjah, Y. K.
- 16:20** **Resilient modulus values of Western Australia asphalt pavement**
Wibisono, G.; Nikraz, H.R.

Wednesday 2nd

- 9:00** **Key Note Lecture**
Ožbolt, J.
- 9:30** **Key Note Lecture**
Birkmann, J.

10:00 – 10:30 Coffee Break

Session Structural & Construction Engineering 6

- 10:50** **Truss structure optimization for two design variable elements using Genetic Algorithm with stress and failure probability constraints**
Kurniawan, M.; Adha, A.
- 11:10** **Experimental study of circular hollow reinforced concrete column strengthened with partial carbon fibre reinforced polymer (CFRP) confinement**
Ismail, R.; Rashid, R. S. M.; Zakwan, F. A. A.; Hejazi, F.
- 11:30** **Flexural performance of full and partially steel fibre reinforced self-compacting concrete (scfrc) ribbed slab**
Ahmad, H.; Hashim, M. H. M.; Bakar, A. A.; Rahman, F. A.
- 11:50** **Testing setup in examine punching shear strength in self-compacting reinforced concrete (SCFRC) ribbed slabs**
Fodzi, N. H. M.; Mohd Hashim, M. H.; Mhd Radzi, M. S.

Session Concrete Engineering 4

- 10:30** **Study on the optimum nano-natural pozzolan content in the concrete binder**
Al-Swaidani, A. M.; Meziab, A.

Wednesday 2nd

- 10:50 **Effect of nickel slag as sand replacement in strength and workability of concrete**
Edwin, R. S.; Ngii, E.; Talanipa, R.; Masud, F.; Sriyani, R.
- 11:10 **Axial tensile strengths of UHPC and UHPFRC**
Kusumawardaningsih, Y.; Fehling, E.; Hardjasaputra, H.; Al-Ani, Y.; Aboubakr, A. A. M.
- 11:30 **Using calcium chloride as an accelerator for Portland pozzolan cement concrete compressive strength development**
Salain, I M. A. K.
- 11:50 **Self-healing of hardened cement paste affected by additional Ca²⁺ and CO₃²⁻ ions with temperature control**
Choi, H.; Inoue, M.

Session Construction and Safety Management 3

- 10:30 **A framework for ethical procurement of construction projects in Nigerian federal universities**
Abdullahi Zadawa, N.
- 10:50 **Comparison of the supervisory cost using an unmanned aerial system and the conventional method in construction projects**
Kaming, P. F.
- 11:10 **Developing information system to improve hinterland productivity of rubber multimodal transportation in South Sumatera Indonesia**
Buchari, E. B.; Sattar, E. Z.; Sumantri, I.; Novelo, R.

12:10 – 13:10 Lunch

Session Structural & Construction Engineering 7

- 13:10 **Applications of hysteretic steel dampers for controlling seismic damage of steel frame**
Teruna, D.R.
- 13:30 **Combined rings and horizontal steel pipe as hysteretic dampers**
Utomo, J.; Moestopo, M.; Surahman, A.; Kusumastuti, D.
- 13:50 **Optimum and performance of absorber with zero damping**
Arfiadi, Y.; Frans, R.
- 14:10 **Seismic vulnerability assessment of bridges using analytical hierarchy process**
Djemai, M. C.; Bensaibi, M.; Zellat, K

Wednesday 2nd

Session Transportation Engineering 2

- 13:10** **The use of deflection bowl parameters to represent the carrying capacity of pavement structures**
Setiadi, B. H.; Supriyono, S.
- 13:30** **Adjusted saturation flow of some signalized intersection in Semarang, Indonesia**
Indriastuti, A. K.; Priyono, E. Y.; Widowati, L. A.; Zuhri, A. S.
- 13:50** **Study of container truck movement in Tanjung Priok Port, Jakarta-Indonesia**
Anas, R.; Sembiring, I.S.
- 14:10** **The economic benefit of toll road investment on the performance of the industry sectors in West Java Province**
Sembiring, I.S.; Anas, R.
- 14:30** **Motorcyclists' awareness and understanding of traffic signs for traffic safety in Yogyakarta**
Purnamasari, P. E.

Session Geotechnical Engineering 4

- 13:10** **Effect of adding nano-calcined clay and nano-lime on the geotechnical properties of expansive clayey soils**
Al-Swaidani, A. M.; Hammoud, I.; Al-Ghuraibi, I.; Meziab, A.
- 13:30** **Reliability sensitivity analysis with subset simulation: application to a carbon dioxide storage problem**
Xiao, S.; Oladyshkin, S.; Nowak, W.
- 13:50** **Determining the track condition using soil properties**
Schuk, V.; Rapp, S.; Martin, U.

14:50 – 15:20 Coffee Break

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