



CE Plenary

Tuesday, July 25, 2017 13.00-13.30

Jakarta A Room 2nd fl

Invited Speaker : Prof. Dr. Uwe Lahl, TU (Technical University) Darmstadt
The importance of pollution control for the acceptance of waste treatment plants

CE 1A : Environmental Engineering

Tuesday, July 25, 2017 13.00-15.00

Jakarta A Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	823	CE1A - 1	Nyoman Suwartha and Dian Rahayu Pujiastuti	Enhancing Removal Efficiency of Ammonia and Nitrate in Shrimp Farm Wastewater using Biofloc Technology and Effective Microorganisms 4 (EM4)	Universitas Indonesia, Indonesia	13.30-13.45
2	917	CE1A - 2	Christina Browning, Sholahudin Al Ayyubi and Wiratni Budhijanto	Partial Phase I Environmental Site Assessment of Piyungan Landfill and Anaerobic Fluided Bed Reactor (AFBR) Pilot Study for Leachate Treatment	Arizona State University, USA	13.45-14.00
3	82	CE1A - 3	Djoko M Hartono, Gabriel Andari Kristanto, Irma Gusniani Sofian, Ahmad Fauzan and Ghanis Mahdiana	Leachate Treatment using three Years Aged Lysimetric Bioreactor Models	Universitas Indonesia, Indonesia	14.00-14.15
4	368	CE1A - 4	Ariani Dwi Astuti, Muhammad Lindu, Ramadhani Yanidar and Maria Manda Kleiden	Effect of Plants <i>Vetivera zizanioides</i> (Akar Wangi) on Performance of Field Plant Subsurface Constructed Wetlands -Multilayer Filtration with Vertical Flow	Trisakti University, Indonesia	14.15-14.30
5	680	CE1A - 5	Adipati Gumelar, Abimanyu Alamsyah, Setyo Moersidik and Nurfitri Syadiah	Pantura Water Quality: Comparing the Pollution Distribution Model of Comal River and Garang River	School of Strategic and Global Studies	14.30-14.45
6	246	CE1A - 6	Robby Yussac Tallar, Erick Wijaya, Yohanes Reinaldo and Jian-Ping Suen	Effects of Vegetation Distribution on Experimental Micro-Drainage Channel	Maranatha Christian University, Indonesia	14.45-15.00



CE 1B : Transportation Engineering

Tuesday, July 25, 2017 13.00-15.00

Jakarta B Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	813	CE1B - 1	Ellen Sophie Wulan Tangkudung and Catharina Widyadayinta	Performance Analysis of Trans-Jakarta Bus Suburban Service Move-across Greater Jakarta	Universitas Indonesia, Indonesia	13.30-13.45
2	709	CE1B - 2	Endang Widjajanti	Public Perception of Public Service Announcement (PSA) on Transportation Safety Awareness Through Television in Surabaya	National Institute of Science and Technology, Indonesia	13.45-14.00
3	248	CE1B - 3	Aleksander Purba, Fumihiko Nakamura and Dwi Herianto	Service Delivered on New Transit System from Users Viewpoint (Case Studies: TransJogja and TransMusi-Indonesia)	Lampung University, Indonesia	14.00-14.15
4	477	CE1B - 4	Martha Veraida Silaen and Jachrizal Sumabrata	Analysis and Design Of Pedestrian Facilities Along Manggarai Railway Station – Manggarai TransJakarta Shelter	Universitas Indonesia, Indonesia	14.15-14.30
5	341	CE1B - 5	ani Talitha Zafira and Muhammad Ismail Hafidz Sadjidullah	Measurement of Toll Road Service Quality (TRSQ) Using Structural Equation Model Approach	Indonesia Toll Road Authority, Indonesia	14.30-14.45

CE 2A: Geotechnical Engineering

Tuesday, July 25, 2017 15.15-18.00

Jakarta A Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	86	CE2A - 1	Ferry Fatnanta and Syawal Satibi	Various Number and Gap of Helical Pile Toward Limit of Axial Carrying Capacity Helical Pile Footing Pressure on Peat Soil	Riau University, Indonesia	15.15-15.30
2	143	CE2A - 2	Sigit Pramono, Widjojo Prakoso, Astri Rahayu, Arsika Rudiyanto, Fajri Syukur, Sofian Sofian and Phil Cummins	Investigated of Characteristics Subsurface by using Parameters Vs30, HVSR and Combination of SPAC Method for Microtremor Array in Palu City and Surroundings Central Sulawesi-Indonesia	Indonesian Agency for Meteorology, Climatology and Geophysics, Indonesia	15.30-15.45
3	160	CE2A - 3	Gunawan Wibisono, Soewignjo Agus Nugroho and Khairul Umam	The Influence of Gradation and Clay Content of the Soil Shear Strength on Clayey Sand	Riau University, Indonesia	15.45-16.00



4	552	CE2A - 4	Yulinda Sari, Anis Saggaff, Wiwik Rahayu and Hanafiah Hanafiah	Characteristic and Classification of Fibrous Peat in Banyuasin Regency	Sriwijaya University, Indonesia	16.00-16.15
5	449	CE2A - 5	Fendi Yanto	A Numerical Method of the Rigid Pavement Supported by Soil Cement Column on Soft Soil	University Merdeka Madiun, Indonesia	16.15-16.30
6	188	CE2A - 6	Sigit Sutikno, Manyuk Fauzi, Ari Sandhyavitri, Rinaldi and Akbar Putra	Integrated Remote Sensing and GIS for Mapping and Classification of Peatland in Riau, Indonesia	Riau University, Indonesia	16.30-16.45
7	179	CE2A - 7	Lolom Evalita Hutabarat and Tommy Ilyas	Land Subsidence Induced by Ground Water Extraction in Urban and Coastal Areas of Jakarta City as a Sustainability Countermeasure in The Future	Universitas Indonesia, Indonesia	16.45-17.00
8	225	CE2A - 8	Yulian Firmana Arifin, Setyo Mulyo Kurniawan and Ellyn Normelani	Effectiveness of Horizontal Drains for Slope Stability of Coal Mining, Case Study of Slope Failure in Tambang Guntur, South Kalimantan	University of Lambung Mangkurat, Indonesia	17.00-17.15
9	390	CE2A - 9	Erly Bahsan, Gabriel Andari Kristanto, Sarah Pramiarsih and Syahrizal A. Latief	Geotechnical Characteristics of Bantargebang Solid Waste Landfill using Artificial Waste Sample and Field Test	Universitas Indonesia, Indonesia	17.15-17.30
10	68	CE2A - 10	Agus Ika Putra, Muhamad Yusa and Soewignjo Agus Nugroho	Study Gradation and Moisture Content of Sand Embankment on Peat Subjected Vibration Potential liquefaction	Riau University, Indonesia	17.30-17.45
11	571	CE2A - 11	Astri Rahayu and Widjojo Prakoso	Comparing Shear-Wave Velocity from MASW with Borehole Measurement at Merapi Sediment in UMY Campus Site	Universitas Indonesia, Indonesia	17.45-18.00



CE 2B: Transportation Engineering

Tuesday, July 25, 2017 15.15-18.00

Jakarta B Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	602	CE2B - 1	Fitra Ramdhani, Husni Mubarak and Equinaldo Naldo	Rigid Pavement Road Condition Assessment With Highways Method And Pavement Condition Index (PCI) Method In Dumai City Limits Roads - Duri City at STA 173 + 000-177 + 000	Abdurrah University, Indonesia	15.15-15.30
2	754	CE2B - 2	Endang Widjajanti and Ismono Kusmaryono	Identification and Improvement of Accident Black Spots on National Road in Samarinda	National Institute of Science and Technology, Indonesia	15.30-15.45
3	117	CE2B - 3	I Nyoman Arya Thanaya, I Wayan Suweda and Gede Kossala Putra	Performance of Asphalt Concrete Wearing Course (AC-WC) Utilizing Reclaimed Asphalt Pavement from Cold Milling Bound with 80/100 Pen Asphalt	Udayana University, Indonesia	15.45-16.00
4	92	CE2B - 4	Samuel Edy Mataram Simanjuntak and Jachrizal Sumabrata	Analysis of Transjakarta Feeder Transit Service Quality : Case of Corridor 4 Pulo Gadung Dukuh Atas 2	Universitas Indonesia, Indonesia	16.00-16.15
5	791	CE2B - 5	Edy Hadian and Alvinsyah	Impact on Ridership of New Railbase Transit due to the operation of Extensive Bus Semi Rapid Transit Network (Case Study: Greater Jakarta (Jabodetabek) Public Transport Network)	Universitas Indonesia, Indonesia	16.15-16.30
6	414	CE2B - 6	Ika Kustiani and Amril Ma'Ruf Siregar	An Assessment on Sustainability of the Railway – Airport Link as an Alternative Mode of Transportation from Bandar Lampung Central Business District to Raden Inten Airport	The University of Lampung, Indonesia	16.30-16.45



CE Plenary

Wednesday, July 26, 2017 08.00-08.30

Jakarta A Room 2nd fl

Invited speaker : Dr.Bambang Trigurnaryah, King Fahd University of Petroleum and Minerals, Saudi Arabia
Quality Management System of Saudi Contracting Companies

CE 3A : Structural and Material Engineering

Wednesday, July 26, 2017 08.30-10.00

Jakarta A Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	693	CE3A - 1	Jessica Sjah, Eric Vincens and Jean Christophe Marongiu	2D numerical modeling of Hole Erosion Test : hydrodynamic forces on the fixed pipe wall particles	Universitas Indonesia, Indonesia	08.30-08.45
2	342	CE3A - 2	Basyaruddin Aripin and Min Yuan Cheng	Issues of Shear Deformation Measurement in Experimental Studies	Kalimantan Institute of Technology, Indonesia	08.45-09.00
3	498	CE3A - 3	Irwan Katili and Imam Jauhari Maknun	Error Estimation for DKMQ24 Shell Element by Using Various Recovery Methods	Universitas Indonesia, Indonesia	09.00-09.15
4	476	CE3A - 4	Anas Puri and Rony Ardiansyah	Calculation The Edge of Slab Deflection of Modified Cakar Ayam System by Applying the Displacement Factor from Puri's Graph	Riau Islamic University, Indonesia	09.15-09.30
5	645	CE3A - 5	Heru Purnomo, Rosi Nursani, Sekar Mentari, Sjahril A. Rahim and Elly Tjahjono	Numerical evaluation of shear behavior of a metal shear key used in joining precast concrete segmental bridge girders without epoxy	Universitas Indonesia, Indonesia	09.30-09.45
6	633	CE3A - 6	Dimas Langga and Widarto Sutrisno	Comparative Analysis Layers Method of T-Beam Reinforcement	Sarjanawiyata Tamansiswa University, Indonesia	09.45-10.00



CE 3B : Construction and Project Management

Wednesday, July 26, 2017 08.30-10.00

Jakarta B Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	750	CE3B - 1	Eric Too, Tiendung Le and Wei Yee Yap	The role of governance and its impact on project scope – A Case Study	RMIT University, Australia	08.30-08.45
2	382	CE3B - 2	Basuki Anondho, Ayomi Dita Rarasati, Yusuf Latief and Khrisna Mochtar	Identification of Country Standard Measureable Indicators on Construction Project Duration Performance in Jakarta, Indonesia	Tarumanagara University, Indonesia	08.45-09.00
3	61	CE3B - 3	Ringgy Masuin, Yusuf Latief, T. Yuri Zagloel and Leni Sagita	Development of Integrated Management System between Quality Management System and Occupational Health and Safety Management System in Ministry of Public Work and Public Housing – A Conceptual Framework	Universitas Indonesia, Indonesia	09.00-09.15
4	180	CE3B - 4	Fauzan, Febrin Anas Ismail, Farizzi Adriya Shiddiq, Yogi Indrayudha and Zev Al Jauhari	Analysis of Retrofit on School Building with Shear Wall and Steel Bracing	Andalas University, Indonesia	09.15-09.30
5	910	CE3B - 5	Muhammad Haikal Syarief, Yusuf Latief and Ayomi Dita Rarasati	Development of Institutional Funding Model of Deep Discount Bond on Toll Road Projects	Universitas Indonesia, Indonesia	09.30-09.45

CE 4A : Structural and Material Engineering

Wednesday, July 26, 2017 10.15-12.00

Jakarta A Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	49	CE4A - 1	Fransisca Maria Farida, Adang Surahman, Ananta Sofwan and Rino Rakhmata Mukti	Numerical study of Geopolymer Paste as Passive Fire Protection	Bandung Institute of Technology, Indonesia	10.15-10.30
2	97	CE4A - 2	Chatarina Niken, Elly Tjahjono, Fx Supartono and Laksmi Irianti	Deformation of High Performance Concrete Plate Under Humid Tropical Weather	University of Lampung, Indonesia	10.30-10.45



3	793	CE4A - 3	I Ketut Sudarsana, Putu Deskarta and Kadek Bangkit T.S.	Capacity and Ductility Analysis of Externally Strengthened R/C Columns Using Steel Plates	Udayana University, Indonesia	10.45-11.00
4	202	CE4A - 4	Gidion Turuallo and Harun Mallisa	Using Cementitious Materials Such Fly Ash to Replace a Part of Cement in Producing High Strength Concrete in Hot Weather	Tadulako University, Indonesia	11.00-11.15
5	470	CE4A - 5	Dewi Sulistyorini and Iskandar Yasin	Ductility of Polystyrene Waste Panel	Sarjanawiyata Tamansiswa University, Indonesia	11.15-11.30

CE 4B : Fluid Mechanics and Water Resources Management

Wednesday, July 26, 2017 10.15-12.00

Jakarta B Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	204	CE4B - 1	Max Rudolf Muskananfolo, Haeruddin ., Pujiono Wahyu Purnomo and Bambang Sulardiono	Erosion and Transport Rates of Sediments at Degraded Coastal Waters in Bedono Village, Sayung Demak, Central Java	Diponegoro University, Indonesia	10.15-10.30
2	195	CE4B - 2	Dwita Sutjiningsih and Yosef Prihanto	The Relationship Between Various Land Use Categories and The Imperviousness For Predicting The Impact of Excessive Land Development in Urban Area at Semarang Regency, Central Java	Universitas Indonesia, Indonesia	10.30-10.45
3	105	CE4B - 3	Ari Sandhyavitri, Sigit Sutikno, Manyuk Fauzi, Mardan Fajri and Muhammad Iqbal	Mapping of Sub-Siak Watershed Based on Remote Sensing and Simulation Its Performances Based on SWAT	Riau University, Indonesia	10.45-11.00
4	279	CE4B - 4	Toha Saleh	Analysis of Flood Emergency Response Instrument in Indonesia	Universitas Indonesia, Indonesia	11.00-11.15
5	154	CE4B - 5	Evi Anggraheni, Dwita Sutjiningsih, Airlangga Mardjono and Teuku Iskandar	Dry Dams Performance on Consecutive Rainfall During Rainy Season at Upper Ciliwung Watershed	Universitas Indonesia, Indonesia	11.15-11.30



CE 5 : Fluid Mechanics and Water Resources Management

Wednesday, July 26, 2017 14.00-15.30

Manado Room 2nd fl

No	Paper #	ID	Author	Title	Affiliation	Time
1	497	CE5 - 1	Zainul Faizien Haza	The drag forces exerted by lahar flows on a cylindrical pier: case study of post Mount Merapi eruptions	Sarjanawiyata Tamansiswa University, Indonesia	15.15-15.30
2	134	CE5 - 2	Eva Rolia, Dwita Sutjiningsih and Herr Suryantono	Groundwater Potential Exploration in Bumi Ratu Nuban Lampung Tengah Using Geoelectric Method	Universitas Indonesia, Indonesia	15.30-15.45
3	517	CE5 - 3	Rian Mantasa Salve Prastica	Estimating Design Flood and Hec-Ras modeling Approach for Flood Analysis in Bojonegoro City	Riau University, Indonesia	15.45-16.00
4	203	CE5 - 4	Betania Lydiana, Dwinanti Rika Marthanty and Herr Soeryantono	Reliability of Smoothed Particles Hydrodynamics Method in Simulating 3D Fluid Flow towards Conservation of Mass and Energy	Universitas Indonesia, Indonesia	16.00-16.15
5	432	CE5 - 5	Riyan Benny Sukmara, Ariyaningsih Ariyaningsih, Nadjadji Anwar and Edijatno Edijatno	River Flood Reduction with Multiple Dams Scenario in Karang Mumus River, Samarinda	Kalimantan Institute of Technology, Indonesia	16.15-16.30