2nd World Congress on Civil, Structural, and Environmental Engineering (CSEE'17)

The congress consists of:

ICGRE'17	2 nd International Conference on
	Geotechnical Research and Engineering
ICSENM'17	2 nd International Conference on Structural Engineering,
	New Technology and Methods
ICESDP'17	2 nd International Conference on Environmental Sustainability,
	Developement, and Protection
AWSPT'17	2 nd International Conference on Air, Water,
	and Soil Pollution and Treatment
ICTE'17	2 nd International Conference on Traffic Engineering

Registrants from the five conferences are permitted, and even encouraged, to attend sessions from any of the five conferences.

Sunday

April 2, 2017

2:30 PM - 4:30 PM Registration

Monday

April 3, 2017

8:00 AM - 9:00 AM Registration

	ROOM 1
9:00 AM - 9:15 AM	Official Opening of the Congress
	Dr. Hany El Naggar & Dr. Mohamed Shahin
9:15 AM - 10:00 AM	KEYNOTE LECTURE
Session Chair	Soil-Structure Interaction of Integral Abutment Bridges
Dr. Mohamed Shahin	Dr. Hany El Naggar Dalhousie University, Canada
	PARALLEL SESSION - ROOM 1
10:00 AM - 10:45 AM	KEYNOTE LECTURE
Session Chair Dr. Mohamed Shahin	Performance of RC Beams with or without FRP Strengthening Subjected to Impact Loading
	Dr. Hong Hao Curtin University Australia, Australia
	PARALLEL SESSION - ROOM 2
10:00 AM - 10:45 AM	KEYNOTE LECTURE
Session Chair Dr. Ranjith	Selection of Cyanobacteria Grown in Wastewater Treatment Systems for Metabolites Production
Pathegama	Dr. Joan García Universitat Politècnica de Catalunya-BarcelonaTech, Spain
10:45 AM - 11:05 AM	COFFEE BREAK
	PARALLEL SESSION - ROOM 1
11:05 AM - 12:55 PM	SESSION CHAIRS: Dr. Chien-Yuan Chen & Dr. Djamalddine Boumezerane
	Geotechnical Structure
ICGRE 107 11:05 - 11:25	Effect of Cavities on the Behaviour of Model Pile under Axial Loading in Sand
	AliAl-Jazaairry, Tahsin TomaSabbagh University of Salford, United Kingdom

ICGRE 117 11:25 - 11:45	Different Loading Systems for Reinforced Earth Walls under Strip Footing Load
	Hamzeh Ahmadi, Adam Bezuijen Ghent University, Belgium
ICGRE 157	Load-deformation Analysis of a Pile in Expansive Soil Upon Infiltration
11:45 - 12:05	Yunlong Liu, Sai K. Vanapalli, Amina W. BA University of Ottawa, Canada
ICGRE 184 12:05 - 12:15	Iterative Design Approach forSoldier Pile Walls Based on Nonlinear Horizontal Subgrade Modulus
	Stefan Jung Dr. Jung + Lang Ingenieure, Germany
ICGRE 178 12:15 - 12:35	Volume Change Control of High Plasticity Clay by the Stabilization ofFine grained Cements
	Murat Mollamahmutoğlu, <i>Eyubhan Avcı</i> , Altan Erdem <i>Hitit University, Turkey</i>
ICGRE 186	Stabilization of 16 m Deep Excavation in Loose Fill Using Soil Nail Wall
12:35 - 12:55	Mohammad Ali Mojtahedi, Ebrahim Ebrahimnezhad Sadigh Larzeh Sakht Savalan Consulting Engineers Co., Iran
	PARALLEL SESSION - ROOM 2
11:05 AM - 12:45 PM	SESSION CHAIRS: Dr. Simona Schwarz & Abhijna Neramballi
	Environmental Risk Management and Other Related Topics
ICESDP 157	An Integrated Sustainability Assessment Tool Framework
11:05 - 11:25	Sherif Mahmoud, Tarek Zayed University of Concordia, Canada
ICESDP 153	Community Empowerment and Sustainability of a Common Forest: the
11:25 - 11:35	case of Cherán, Mexico
	Aldo Gonzalez, Maria Claudia Lopez Michigan State University, USA

ICESDP 104	Consideration Regarding Environmentally-friendly in Manufacturing Field
11:35 - 11:55	Ikuo Tanabe
	Nagaoka University of Technology, Japan
ICESDP 172	Farmer Engagement in Conservation through Tile Drain Water Quality
11:55 - 12:05	Monitoring in Southeastern Michigan
	Alaina Nunn, Jon Bartholic, John Kerr
	Michigan State University, USA
ICESDP 159	Impacts of Agricultural Poultry Farming on Water and Sediment Qualities
12:05 - 12:25	Adewale M. Taiwo, Toyin A. Arowolo Federal University of Agriculture, Nigeria
ICESDP 169	Prediction of Breach Peak Outflow and Failure Time Using Artificial Neura
12:25 - 12:45	Network Approach
	<i>Mohammed T. Mahmoud</i> , Ahmed H. Bukhary, Ahmed G. Ramadan, Muhammad A Al-Zahrani
	King Fahd University of Petroleum and Minerals, Saudi Arabia
	PARALLEL SESSION - ROOM 3
11:05 AM - 1:05 PM	SESSION CHAIRS: Dr. Hong Hao & Dr. Abdulsamee Halahla
	New Technologies in Structural Design and Construction I
ICSENM 130	Origami Applications in Structural Engineering:
11:05 - 11:25	A Look at Temporary Shelters
	Monica Norman, Kaveh Arjomandi,
	University of New Brunswick, Canada
ICSENM 118	Long-Term Structural Behaviour of Composite Sandwich Panels
11:25 - 11:45	Harry Far, Claire Far
	University of Technology Sydney, Australia
ICSENM 122	Utilization of Precast Concrete Panels for Fast Construction of Outer Wal
11:45 - 11:55	of LNG Storage Tanks
11.45 - 11.55	
11.40 - 11.00	<i>Hyeon Cheol Jo</i> , Jun Hwi Kim, Seul Kee Lee, Kang Won Lee, Seung Hyun Oh, Yu Mook Lim

ICSENM 108 11:55 - 12:15	Effect of Soil Amplification on the Response of Base-Isolated Buildings under Near-Fault Earthquakes
	Sinan Sargın, Hatice Gazi, <i>Cenk Alhan</i> , Sadik Oztoprak <i>İstanbul University, Turkey</i>
ICSENM 129	A Bolted Moment Connection Model for Precast Column-Beam Joint
12:15 - 12:35	Selim Pul, Mehmet Şentürk Karadeniz Technical University, Turkey
ICSENM 117 12:35 - 12:55	The Prototype of a Software Application for Laser and Image-based Surface Damage Detection
	Burcu Guldur Erkal Hacettepe University, Turkey
ICSENM 123	Dynamic Behaviour of Shallow Foundation Using Macro-Element Approac
12:55 - 1:05	Abdulsamee Halahla, Francesco Calvetti Fahad Bin Sultan University, Saudi Arabia
12:55 PM - 1:55 PM	LUNCH
	PARALLEL SESSION - ROOM 1
1:55 PM - 3:45 PM	SESSION CHAIRS: Dr. Chien-Yuan Chen & Mehrdad Sadeghi
	Soil and Rock Mechanics and Characterization I
ICGRE 174 1:55 - 2:15	Water Diversion Capacity of Shallow Land Waste Repository Covered by Capillary Barrier of Soil
	Toshihiro Morii, Kazunobu Matsumoto, Kaoru Kobayashi Niigata University, Japan
ICGRE 171 2:15 - 2:25	Extension of Log-Spiral-Rankine (LSR) Model for Earth Pressure Analysis to a Sloping Backfill
	Shi-Yu Xu, Abiodun Ismail Lawal City University of Hong Kong, Hong Kong
ICGRE 115 2:25 - 2:45	The Effect of Backfill Grout Hardening on Impact-Echo Signal –Numerical Analysis
	Ju-Young Choi, Kyung-Yul Kim, Ki-Il Song University of Inha, South Korea

ICGRE 127 2:45 - 3:05	Effect of Cyclic Load on California Bearing Ratio of Soaked Clay Robert Nini University of Balamand, Lebanon
ICGRE 110 3:05 - 3:25	A Laboratory Investigation for Shear Modulus of Silty Sand Soils Mehmet Inanc Onur Anadolu University, Turkey
ICGRE 104 3:25 - 3:45	Characterisation and Index Properties Correlations for Marlstone and Marl Limestone of Saudi Arabia
	YassirM.Mustafa, <i>Hamzah M. Al-Hashemi</i> , AhmedH.Bukhary <i>King Fahd University of Petroleum and Minerals, Saudi Arabia</i>
	PARALLEL SESSION - ROOM 2
1:55 PM - 3:15 PM	SESSION CHAIR: Dr. Gulen Gullu Water Pollution and Treatment
AWSPT 106 1:55 - 2:05	Merging of "MnM" and BallTech Technologies to Create a Unique Manganese Removal Filtration System
	Roy Elkayam, Ilan Kessler, Ovadia Lev Hebrew University of Jerusalem, Israel
AWSPT 117 2:05 - 2:15	Optimization of Operating Ozone-Activated Carbon on Advanced Water Treatment Processes Seongtae Park, Hoe-Suk Jung, Ihnsup Han, Jungyeol Eom, Heekyong Oh University of Seoul, South Korea
AWSPT 119 2:15 - 2:25	Investigation of Accreditation Status of Environmental Parameters in Turkey
	Perihan Akan, Ozlem Muge Aydin Testik Hacettepe University, Turkey
AWSPT 158 2:25 - 2:45	Decentralized Treatment of Grey Water by Natural Coagulants in the Presence of Coagulation Aid
	<i>Roopika Nautiyal</i> , Shivangi Uliana, Ishant Raj, Brij Shah, Kavish Rathore, Anantha Singh <i>Pandit Deendayal Petroleum University</i> , <i>India</i>

AWSPT 160 2:45 - 2:55	Comparative Study of Different Natural Coagulants for the Treatment of Grey Water with Conventional Alum
	<i>Shivangi Uliana</i> , Brij Shah, Ishant Raj, Kavish Rathore, Roopika Nautiyal, Anantha Singh
	Pandit Deendayal Petroleum University, India
AWSPT 156 2:55 - 3:05	From the problem of Ground Water Salinity towards Sustainable Prosperity in Agricultural Sector in coastal region of Gujarat, India
	Niraj Kathrani, Anurag Kandya, Iris Koekkoek, Tess Op Den Kelder, Purvesh Rajpurohit
	Pandit Deendayal Petroleum University, India
AWSPT 108 3:05 - 3:15	Removal of Heavy Metals in Water with Adsorbents Derived from Pig Manure
	Jens Maggen, Robert Carleer, Jan Yperman, Sonja Schreurs Hasselt University, Belgium
	PARALLEL SESSION - ROOM 3
1:55 PM - 2:40 PM	KEYNOTE LECTURE
Session Chair	Principles of a Sustainable Traffic Management
Dr. Hany El Naggar	Dr. Manfred Boltze Technische Universität Darmstadt, Germany
2:40 PM - 3:40 PM	SESSION CHAIR: Dr. Manfred Boltze
	Intelligent Transport Systems
ICTE 107 2:40 - 3:00	Ultralight Last Mile Vehicles on Public Walkways for Sustainable Traffic Chains
	Oliver Zirn, Konrad Sagert, Markus Rüther University of Applied Sciences Esslingen, Germany
ICTE 110 3:00 - 3:20	Vehicle Detection Using Imaging Technologies and its Applications under Varying Environments: A Review
	Zi Yang, Lilian Pun The Hong Kong Polytechnic University, Hong Kong
ICTE 111 3:20 - 3:40	A Study on Developing Image Processing for Smart Traffic Supporting System based on AR
	Byeong-Wook Nam, <i>Kyung-Ho Lee</i> , Jung-Min Lee <i>Inha University, South Korea</i>

3:50 PM - 4:10 PM	COFFEE BREAK
	PARALLEL SESSION - ROOM 1
4:10 PM - 6:00 PM	SESSION CHAIRS: Dr. Mehmet Inanc Onur & Dr. Rajeshwar Goodary
	Modelling and Design
ICGRE 130	Rocking and Uplift of a Shallow Wind Turbine Foundation
4:10 - 4:20	Rose Hawkswood, Helen Mitrani, Mohamed Rouainia, Andrew Brennan Newcastle University, United Kingdom
ICGRE 163 4:20 - 4:40	Displacements in a Column-Reinforced Granular Medium; A Probabilist Approach
	Djamalddine Boumezerane, Meryem Lahbiben Norwegian University of Science and Technology, Norway
ICGRE 188	A New and Reusable Foundation Solution for Onshore Wind Turbines
4:40 - 4:50	Wael Mohamed, Per-Erik Austrell, Ola Dahlblom Lund University, Sweden
ICGRE 194 4:50 - 5:10	Extending Ground Penetrating Radar Imaging Capabilities Through Sign Processing
	Roger Tilley, Hamid Sadjadpour, Farid Dowla University of California, Santa Cruz, USA
ICGRE 151 5:10 - 5:20	Response Analysis for Pile Subjected to Vertical Direction of Seismic Shaking
	Chien-Yuan Chen, Ming-Jin Wu National Chiayi University, Taiwan
ICGRE 175 5:20 - 5:40	Effect of Different Category of Geogrid and Sand Layer on Pull-out Behaviour
	Mojtaba Firoozi Nezamabadi, S. Hamid Lajevardi, <i>Mehrdad Sadeghi</i> Shahab Danesh University, Iran
ICGRE 123 5:40 - 6:00	Energy Efficiency of Standard Penetration Test Hammers & Bearing Capacity Evaluation in Sands
	Indrasenan Thusyanthan, Bassim A Nawaz Saudi Aramco, Saudi Arabia

	PARALLEL SESSION - ROOM 2
4:10 PM - 6:15 PM	SESSION CHAIRS: Dr. K. van Breugel & Hamedreza Javadian
	Global Warming: Causes and Consequences
ICESDP 108 4:10 - 4:30	Evaluation of Building Energy Savings According to the Thermal Performance Experiment of PCM Floor Heating System
	In Sung Kang, Sang Hoon Baek, Jin Chul Park Chung-Ang University, South Korea
ICESDP 109 4:30 - 4:50	Simulation Analysis of Thermal Insulation Performance of PCM for Mitigating Urban Heat Island Effect Hyo Eun Lee, Young Kwon Yang, Min-Hee Chung, Jin Chul Park Chung-Ang University, South Korea
ICESDP 176 4:50 - 5:10	A Comprehensive Literature Review of Green Supply Chain Management Abhijna Neramballi, Movin Sequeira, Martin Rydell, Alexander Vestin, Maria Ibarr Jönköping University, Sweden
AWSPT 155 5:10 - 5:30	Adaptive Policy Responses to Climate Change Scenarios in the Musi Catchment, India Brian Davidson, Biju George, <i>Hector Malano</i> , Petra Hellegers University of Melbourne, Australia
ICESDP 158 5:30 - 5:40	A Sustainable Electricity Supply Chain Based on Distributed Renewable Energy Taeho Park, Tianqin Shi, Tongdan Jin San Jose State University, USA
ICESDP 112 5:40 - 5:55	Double Exposure Vulnerability of Agriculture in Southwest Jamaica Douglas W. Gamble, Scott Curtis, Jeff Popke University of North Carolina Wilmington, USA
ICESDP 180 5:55 - 6:15	Vegetation Impact on Microclimate in Hot Climate Zones Abeer Manneh, Hanan Taleb The British University in Dubai, UAE

	PARALLEL SESSION - ROOM 3
4:10 PM - 6:20 PM	SESSION CHAIRS: Dr. Samy Mahmoud & Sofia Storozhenko
	Transportation Planning, Optimization, and Safety I
ICTE 122	Transport Planning, Organisation and Management
4:10 - 4:30	Elżbieta Macioszek, Grzegorz Sierpiński, Marcin Staniek, Ireneusz Celiński Silesian University of Technology, Poland
ICTE 121	Standardisation of Travel Planners and Use of a Return Channel
4:30 - 4:40	Grzegorz Sierpiński, Marcin Staniek, Elżbieta Macioszek Silesian University of Technology, Poland
ICTE 105	Efficient Real-time Allocation of Patrol Cars in Traffic Management
4:40 - 5:00	Hussain Al-Harthei , Viktor Toth, Atef Garib, <i>Samy Mahmoud Carleton University, Canada</i>
ICTE 123	Travel Planning Concept Taking Road Infrastructure Condition into Ac-
5:00 - 5:20	count
	Marcin Staniek, Elżbieta Macioszek, Grzegorz Sierpiński Silesian University of Technology, Poland
ICTE 113	Relationship between Socio-Demographic of Drivers and Traffic Violation
5:20 - 5:40	and Crashes Involvements
	Mohamed Shawky Ahmed, Yousef Al-badi, Abudullah Al-Ghafli Abu Dhabi Police & Ain Shams University, Egypt
ICTE 117	Predicting Speed-Related Traffic Violations on Rural Highways
5:40 - 6:00	Iyad Sahoon, Mohamed Shawky, Ahmed Al-Zaidy Abu Dhabi Police & Tatweer, UAE
ICTE 125	Impact of Exclusive Bus Lanes on Traffic Performance in Urban Areas
6:00- 6:20	Akmal Abdelfatah, Amro Abdulwahid
	American University of Sharjah, UAE

April 4, 2017

ROOM 1

9:00 AM - 9:45 AM KEYNOTE LECTURE

Session Chair Dr. Hany El Naggar Innovative Solutions for Problematic Soils in Civil Infrastructure

Dr. Mohamed Shahin Curtin University, Australia

PARALLEL SESSION - ROOM 1

9:45 AM - 10:30 AM KEYNOTE LECTURE

Session Chair Dr. Hany El Naggar Ageing Infrastructure and Circular Economy: Challenges and Risks

Dr. K. van Breugel

Delft University of Technology, Netherlands

PARALLEL SESSION - ROOM 2

9:45 AM - 10:30 AM KEYNOTE LECTURE

Session Chair Dr. Gulen Gullu **Chitosan- A New Natural Adsorber Material**

Dr. Simona Schwarz

Leibniz Institut für Polymerforschung Dresden, Germany

10:30 AM - 10:50 AM COFFEE BREAK

10:30 AM - 12:00 PM Poster Session

ICGRE 105 Estimation of Deformation Modulus of Soil in Field from Laboratory Tests

Yeowon Yoon, Jungho Ki, Ki-il Song Inha University, South Korea

ICGRE 136 Main Influence Factors for Penetration Rate in Tunnelling

Kyoung-yul Kim, Hee-hwan Ryu, Dae-soo Lee KEPCO Research Institute, South Korea

ICGRE 189 New Site Classification System of Korea and 2016 Gyeongju Earthquakes

Hyung-Ik Cho, Han-Saem Kim, Chang-Guk Sun, Dong-Soo Kim Korea Institute of Geoscience and Mineral Resources, South Korea

ICGRE 173 Analysis of Soil Arching in Pipeline Installation Subjected to Uplift

Yuri Costa, Lucas Moraes, *Carina Costa*

Federal University of Rio Grande do Norte, Brazil

ICGRE 191	Dimension Effect on Plate Load Test Results
	Duílio Araújo, <i>Carina Costa</i> , Yuri Costa Federal University Rural do Semi-Árido, Brazil
ICSENM 101	Mathematical Algorithms of Patterns for Free-Form Panels
	Seunghyun Son, Heni Fitriani, Jeong Tai Kim, Seongseok Go, <i>Sunkuk Kim Kyung Hee University, South Korea</i>
ICSENM 110	Seismic Fragilities of Curved Concrete Bridges via Bayesian Parameter Estimation Method
	Jong-Su Jeon, Taehyo Park
	Andong National University, South Korea
ICSENM 116	Inelastic Analysis of Circular Dampers under in-Plane Loading
	Yen-Po Wang, Chien-Liang Lee, Shih-Chiao Huang, Min-Che Tu National Chiao-Tung University, Taiwan
ICSENM 131	Seismic Performance Evaluation of the Existing RC Frames Reinforced by Chevron Bracing System
	Keunyeong Oh, Heonjun Ha, Byeonghyun Jo, Kangmin Lee Chungnam National University, South Korea
ICSENM 126	Analysis of Epoxy Interface Subjected to Sustained Loading and Temperature
	Yoseok Jeong, WooSeok Kim
	Chungnam National University, South Korea
ICESDP 175	Assessment of Fluoride Levels in Locally Produced and Imported Bottled Water
	Mohamed Yehia Abouleish American University of Sharjah, UAE
ICESDP 111	Satellite Detection of Wildland Fire in South America
	Benjamin Leonardo Alves White Federal University of Sergipe, Brazil
ICESDP 181	Vermicomposting: An Effective Alternative for Organic Solid Waste Management
	Anmol Grewal, Swarndeep Singh Hundal, Sandeep Sharma Punjab Agricultural University, India

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ICESDP 184	Silica Coated Hollow α -Fe2O3 Derived from Fe-MIL-88A Metal Organic Framework (MOF) as an Efficient Catalyst for Enhanced Selective Catalytic Reduction (SCR) of NO with NH3
	Junhyung Lee, Daeyeon Won, Junho Chung, Seung-Yeop Kwak Seoul National University, South Korea
AWSPT 101	Nitrate Adsorption and Potential Nitrate Leaching Under Partial Root Zone Drying Irrigation
	Feizollah Shams Govarchingala, Sina Besharat Urmia University, Iran
AWSPT 146	Investigation of the Charge Behavior of PAA Copolymers by Means of Polyelectrolyte Titration
	Simona Schwarz, Christine Steinbach, Dana Schwarz, Gudrun Petzold, Evgenia Romanova, Marina Oelmann Leibniz-Institut für Polymerforschung Dresden, Germany
AWSPT 112	Sorption Of Pb (II) From Aqueous Solution By Nio/Activated Carbon Nanocomposite
	Hamedreza Javadian, Montserrat Ruiz, Ana Maria Sastre Universitat Politècnica de Catalunya, Spain
AWSPT 111	The Stability of Ecosystems Cryolithozone in the Extraction Hydrocarbon Feedstock
	Yana Legostaeva, Marta Ksenofontova, Anna Gololobova M. K. Ammosov North-Eastern Federal University, Russia
	PARALLEL SESSION - ROOM 1
10:50 AM - 12:20 AM	SESSION CHAIRS: Dr. Ahmed Fahmy & Matias Lazcano
	Soil and Rock Mechanics and Characterization II
ICGRE 168 10:50 - 11:10	3D Particle Shape of Calcareous Sand Conducted by X-Ray Computed Tomography
	Pham Huu Ha Giana Peter Van Impe William Van Impe Patrick Menge Veerle

Pham Huu Ha Giang, Peter Van Impe, William Van Impe, Patrick Menge, Veerle Cnudde, Wim HaegemanGhent University, Belgium

ICGRE 158 11:10 - 11:30	Soil Collapse Monitoring with EM Measurements
	Henok Hailemariam, Ahmed Al-Janabi, Frank Wuttke, Norman Wagner Kiel University, Germany
ICGRE 183	Probabilistic Elastic-Plastic Cam Clay Response of Soils
11:30 - 11:50	Arezoo Sadrinezhad, Kallol Sett California State University, Fresno, USA
ICGRE 192	Stabilisation of Volcanic Dark Magnesium Clay using Lime
11:50 - 12:00	Rajeshwar Goodary, Miraniaina Adriamalala, Roodheer Beeharry, Anoop Aujayeb Université des Mascareignes, Mauritius
ICGRE 155	Correlating the Shear Wave Velocity with the Cone Penetration Test
12:00 - 12:20	Sayed M. Ahmed Ain Shams University, Egypt
	PARALLEL SESSION - ROOM 2
10:50 AM - 12:30 PM	SESSION CHAIR: Dr. Hong Hao
	New Technologies in Structural Design and Construction II
ICSENM 103	Structural Behavior of HFRP-Steel Double-Lap Joints with FRP Bolts
10:50 - 11:10	Omnia Abou El-Hamd, Amr Sweedan, Khaled El-Sawy United Arab Emirates University, United Arab Emirates
ICSENM 128 11:10 - 11:30	Strength and Elastic Properties of Low-Fine Self-Compacting Concretes Designed with Nano SiO ₂
	Muhammed Yasin Durgun, Hakan Nuri Atahan Bartın University, Turkey
ICSENM 134 11:.30 - 11:50	Effect of Isothermal Curing on the Compressive Strength of High Early- Strength Concrete
	Marlon L. de la Cruz, Oscar Victor M. Antonio, Jr. University of the Philippines, Philippines
ICSENM 127	Effect of Nano SiO ₂ Size on Fresh Properties of Self-Compacting Concre
11:50 - 12:10	Muhammed Yasin Durgun, Hakan Nuri Atahan Bartın University, Turkey
ICSENM 142	
ICSENM 142 12:10 - 12:30	Implementing Waste Oils with Reclaimed Asphalt Pavement

	PARALLEL SESSION - ROOM 3
10:50 PM - 12:35 PM	SESSION CHAIRS: Dr. Abdul Azeez Kadar Hamsa & Dr. Hatem Abou-Senna Transportation Planning, Optimization, and Safety II
ICTE 115 10:50 - 11:10	Collision Types of Motorcycle Accident and Countermeasures Tien-Pen Hsu, <i>Ku-Lin Wen</i>
	National Taiwan University, Taiwan
ICTE 112 11:10 - 11:20	Warranting a Permissive Left Turn Phase by Time of Day for Flashing Yellow Arrow (FYA) Signals
	Hatem Abou-Senna, Essam Radwan University of Central Florida, USA
ICTE 104 11:20 - 11:35	Making Roads Safer: Optimizing De-icing Using Snowmelt Rates and Slope Data
	Fletcher Chapin, Olufemi Omitaomu, Budhendra L. Bhaduri Cornell University, USA
ICTE 120 11:35 - 11:55	Air Traffic Flow Forecast in the Period of Major Events Based on Cost Effectiveness Optimization
	Sofia Storozhenko, Andrey Popov, Vladimir Sikachev State Scientific Research Institute of Aviation Systems, Russia
ICTE 124 11:55 - 12:15	Residents' Perceptions on the Effectiveness of Road Humps in Improving Malaysian Residential Environments
	Khairun Sarah Radhiah Bachok, <i>Abdul Azeez Kadar Hamsa</i> , Mohd Zin Mohamed, Mansor Ibrahim
ICTE 114	International Islamic University Malaysia, Malaysia Estimating DCI Using Vibration Data for Applet Congrete Payaments
12:15 - 12:35	Estimating PCI Using Vibration Data for Asphalt Concrete Pavements Ufuk Kırbaş, Mustafa Karaşahin Ondokuz Mayis University, Turkey, Istanbul University, Turkey
12:35 PM - 12:40 PM	CONGRESS PHOTO
12:40 PM - 1:40 PM	LUNCH

	PARALLEL SESSION - ROOM 1
1:40 PM - 3:00 PM	SESSION CHAIRS: Dr. Mohamed Shahin & Dr. Rajeshwar Goodary Geotechnical Infrastructure I
ICGRE 113 1:40 - 2:00	Development of a Quality Control Index of Cement Stabilized Road Strutures Using Shear Wave Velocity Susit Chaiprakaikeow, Chitinsee Soponpong, Jiraroth Sukolrat Kasetsart University, Thailand
ICGRE 129 2:00 - 2:10	Supervised Learning Technique for Geomechanical Forecasting during Underground Construction Matias Lazcano, Patricio Cofré SKAVA Consulting, Chile
ICGRE 131 2:10 - 2:30	Statistical Analysis on Field Penetration Index in Shield TBM Hang-Lo Lee, Dae-Soo Lee, Ki-Il Song Inha University, South Korea
ICGRE 138 2:30 - 2:40	Uplift and Lateral Performance of Tapered Helical Piles in Sand Ahmed Fahmy, M. Hesham El Naggar The University of Western Ontario, Canada
ICGRE 141 2:40 - 3:00	Stabilisation of Clay with Fly-Ash Geopolymer Incorporating GGBFS Hayder H. Abdullah, Mohamed A. Shahin, Prabir Sarker Curtin University, Australia
3:00 PM - 3:20 PM	COFFEE BREAK
3:20 PM - 4:00 PM	SESSION CHAIRS: Dr. Mohamed Shahin & Dr. Rajeshwar Goodary Geotechnical Infrastructure II
ICGRE 106 3:20 - 3:40	Uplift Pressure Resistant Approach in Diaphragm Wall Excavation-case Study: Imam Hossein Holy Shrine Development -Karbala- Iraq Behnam Eslami Ziraki, Vahid Ghasemi Tarbiat Modares University, Iran
ICGRE 119 3:40 - 4:00	Numerical Investigation of the Bedding Factor of Concrete Pipes under Deep Soil Fill Saif Alzabeebee, David N Chapman, Asaad Faramarzi University of Birmingham, United Kingdom

Tuesday

1:40 PM - 2:20 PM	New Technologies in Structural Design and Construction III
ICSENM 141 1:40 - 1:50	Shear and Flexural Strengthening of Reinforced Concrete Beams with Titanium Alloy Bars
	Christopher Higgins, Jonathan Knudtsen, Deanna Amneus, Laura Barker Oregon State University, USA
ICENM 139 1:50 - 1:10	Quasi-static Loading Test of Confined Clay Brick Masonry Walls Retrofitt with Post-tensioned Tendons
	Hang Liu, Shaofeng Hua, Chunguang Lan, Xuezhong Yang Beijing Building Construction Research Institute, China
ICENM 149 1:10 - 1:20	Special Emphasis on Seismic Resistant Design of Non-seismically Designed Buildings in Hong Kong
	Eddie Siu-shu Lam, Zhi-dong Yang, Vivian Wong, Bo Li The Hong Kong Polytechnic University, China
2:20 PM - 3:00 PM	SESSION CHAIRS: Dr. Amr Sweedan & Dr. Cenk Alhan Modelling and Simulation I
ICSENM 111 2:20 - 2:30	Impact behaviour of RC Beam using Lattice Model with Discrete Representations of Reinforcements
	Pen Hui Tsou, Young Kwang Hwang, Yun Mook Lim Yonsei University, South Korea
ICSENM 114 2:30 - 2:40	Displacement Estimation of Prestressced Concrete Girder using Artificial Neural Network
	Tae Min Kim, <i>Hyun Su Moon</i> , Moon Kyum Kim, <i>Yun Mook Lim Yonsei University, South Korea</i>
ICSENM 146 2:40 - 3:00	Rigid Body Spring Network Model for Plasticity and Fracture
	Christos D. Sofianos, Vlasis. K. Koumousis National Technical University of Athens, Greece

3:20 PM - 4:50 PM	SESSION CHAIRS: Dr. Amr Sweedan & Dr. Cenk Alhan Modelling and Simulation II
ICSENM 119 3:20 - 3:30	Analytical Solution of Nonprismatic Reinforced Concrete Cantilever Deflection under Concentrated Load
	Amin Almasri Fahad Bin Sultan University, Saudi Arabia
ICSENM 145 3:30 - 3:50	Segmental Elements for the Non-Linear Analysis of Reinforced Concrete Frames
	José Leone, <i>Francisco Barrios</i> , Andrés Salas, Juan Martinez <i>Universidad del Magdalena, Colombia</i>
ICSENM 138	Lateral-Torsional Buckling of European Wide Flange I-Section Beams
3:50 - 4:10	Tolga Yilmaz, Nevzat Kirac, Turab Kilic Eskisehir Osmangazi University, Turkey
ICSENM 137 4:10 - 4:30	Thermal Simulation for a Room with Solid and One-way Ribbed Slab Using FEM
	Ahmed Al-Tamimi, Mohammed Al-Osta, Omar Al-Amoudi, Rached Ben-Mansour King Fahd University of Petroleum & Minerals, Saudi Arabia
ICSENM 115 4:30 - 4:50	Semi-Active Adaptive Fuzzy Sliding Mode Control of Buildings under Earthquake Excitations
	Amir H. Rabiee, Amir H.D. Markazi Iran University of Science and Technology, Iran
	PARALLEL SESSION - ROOM 3
1:40 PM - 3:00 PM	SESSION CHAIRS: Dr. Simona Schwarz Environmental Pollution and Treatment I
AWSPT 123 1:40 - 1:50	Removal of Trace Metals from Municipal Wastewater by Coagulation-Floculation
	Andrew Hargreaves, Peter Vale, Jonathan Whelan, Carlos Constantino, Gabriela Dotro, Pablo Campo Cranfield University, United Kingdom
AWSPT 145 1:50 - 2:10	Simultaneous Adsorption of Iron and Sulfate Ions with Biopolymers
	Janek Weißpflog, Christine Steinbach, Dana Schwarz, Simona Schwarz Leibniz-Institut für Polymerchemie Dresden, Germany

AWSPT 116 2:10- 2:20	Interest of Miscanthus x Giganteus in Phytomanaging Heavy Metal Contaminated Soils
	Karim Al Souki, Brice Louvel, Francis Douay, Bertrand Pourrut Université de Lille 1 Sciences et Technologies, France
AWSPT 162 2:20 - 2:30	Study on Numerical Prediction of Supply Water Temperature in the Building
	Shizuo Iwamoto Kanagawa University, Japan
AWSPT 150	Platinum Group Elements in Road Environments: A Case Study of Poland
2:30 - 2:40	Ewa Adamiec AGH University of Science and Technology, Poland
AWSPT 120	Investigation of Indoor Air Quality at Shooting Range
2:40 - 2:50	S. Yeser Aslanoglu, Fatma Ozturk, <i>Gulen Gullu Hacettepe University, Turkey</i>
AWSPT 159 2:50 - 3:00	Characterization and Treatment of Food Fermentation Emissions via Pilot Scale Anoxic Bioscrubber
	Ilker Akmirza, Saadet Etli, Kadir Alp, Mustafa Turker Istanbul Technical University, Turkey

3:20 PM - 5:00 PM	SESSION CHAIRS: Dr. K. van Breugel
	Environmental Pollution and Treatment II
AWSPT 127 3:00 - 3:20	Low carbon cooling approach for residences in the UAE: A case study
	Basim Touqan, Hanan Taleb, Muna Salameh
	British University in Dubai, UAE
AWSPT 141 3:20 - 3:40	Courtyard as Passive Design Solution for School Buildings in Hot Area
	Muna Salameh, Hanan Taleb
	British University in Dubai, UAE
AWSPT 151 3:40 - 4:00	Impact of Cooling Strategies on Energy Reduction
	Nadia Al-Badri, Hanan Taleb
	University of Sharjah, United Arab Emirates

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AWSPT 138	Impacts of Plant Presence on Formaldehyde Levels in an Office
4:00 - 4:20	Isra Abu Zayed, Bassam Abu Hijleh, Hanan Taleb American University in the Emirates, UAE
ICESDP 183 4:20 - 4:30	Adaptation to flooding in the Low- income Urban settlements of the Least Developed Countries
	Anika Nasra Haque University of Cambridge, United Kingdom
ICESDP 170 4:30 - 4:40	The Akans of Ghana Indigenous Biodiversity Conservation Practices: Implication for Senior High School Curricula
	Maxwell Jnr Opoku, Angela James University of KwaZulu-Natal, South Africa

Tuesday

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7:00 PM - 9:00 PM Closing Ceremony