

World Congress on Civil, Structural, and Environmental Engineering (CSEE'16)

The congress consists of:

International Conference on Geotechnical Research and Engineering (ICGRE'16)	Room Aquarius (A)
International Conference on Structural Engineering, New Technology and Methods (ICSENM'16)	Room Taurus (B) + Aquarius (A)
International Conference on Environmental Sustainability, Development, and Protection (ICESDP'16)	Room Aquarius (A)
International Conference on Air, Water, and Soil Pollution and Treatment (AWSPT'16)	Room Taurus (B) + Aquarius (A)
International Conference on Traffic Engineering (ICTE'16)	Room Aquarius (A)

Registrants from the five conferences are permitted to attend any sessions from any of the five conferences.

Wednesday March 30

8:00 AM	Registration	Session Chairs: Dr. Jiří Němčák & Dr. Volker Alstädt
9:00 AM – 9:15 AM	Official Opening of Congress - Room A	
9:15 AM – 9:55 AM	ICGRE Keynote Lecture I - Room A: <i>Soil-Structure Interaction of Steel Pipe Culverts</i> Hany El Naggar Dalhousie University, Canada	
9:15 AM – 9:55 AM	ICSENM Keynote Lecture I - Room B: <i>Timber Structures for Large-Span Structures</i> Roberto Crocetti Lund University, Sweden	
9:55 AM – 10:10 AM	Coffee Break	

10:10 AM – 10:50 AM	ICESDP Keynote Lecture - Room A: <i>Remediation of Soil and Groundwater Impacted by Chlorinated Solvents – State of the Practice</i> Bernard H. Kueper Queen's University, Canada	Session Chairs: Dr. Jiří Němeček & Dr. Volker Alstädt
10:10 AM – 10:50 AM	ICGRE Keynote Lecture II - Room B: <i>Some Innovative Solutions for Dealing with Problematic Soils in Infrastructure Developments</i> Mohamed Shahin Curtin University, Australia	
10:50 AM – 11:50 AM (Parallel Session) - Room A		
Session Name: Geotechnical Research and Engineering I		Session Chair: Dr. Hany El Naggar
10:50 AM – 11:10 AM	ICGRE 107: Evaluation of Liquefaction Potential of a Coastal Region in Atakum M. Kerem Ertek , Gökhan Demir, Kemal Hacıfendioğlu, S. Banu İkizler Ondokuz Mayıs University, Turkey	Wednesday
11:10 AM – 11:30 AM	ICGRE 103: Microzonation Map of Liquefaction Potential for Sharjah, United Arab Emirates Maher Omar University of Sharjah, UAE	
11:30 AM – 11:50 AM	ICGRE 112: Numerical Analysis of the Reinforced Stone Column by Geosynthetic on Stability of Embankment Eiman Fathi , Reza Mohtasham Azad Islamic University, Iran	

10:50 AM – 11:50 AM (Parallel Session) - Room B		Wednesday
Session Name: Composites and Construction I	Session Chair: Dr. Xue Zhang	
10:50 AM – 11:10 AM	<p>ICSENM 104: <i>Determination of Modal Parameters of Historical Masonry Minarets by using Operational Modal Analysis</i> Kemal Haciefendioğlu, Gökhan Demir, Emre Alpaslan Ondokuz Mayıs University, Turkey</p>	
11:10 AM – 11:30 AM	<p>ICSENM 113: <i>The Influence of Borax Filler Addition on Damping and Vibration Response of S-glass/epoxy Composite Laminates</i> Ahmet Erklig, Mehmet Bulut University of Gaziantep, Turkey</p>	
11:30 AM – 11:50 AM	<p>ICSENM 115: <i>Effect of Fibre Orientations on Damping and Vibration Characteristics of Basalt Epoxy Composite Laminates</i> Ömer Yavuz Bozkurt, Mehmet Bulut, Özkan Özbek University of Gaziantep, Turkey</p>	
<p>Group Photo of the Congress will be happening from 11:50 AM – 12:00 PM. Please come to the registration desk to take the photo.</p>		
12:00 PM – 1:00 PM	Lunch	
1:00 PM – 1:40 PM	<p>AWSPT Keynote Lecture I - Room A: <i>Unknown Molecules in Air, Water and Soil: Screening Strategies with LC-MS</i> Thomas Letzel Technical University of Munich (TUM), Germany</p>	Session Chairs: Dr. Bernard H. Kueper & Dr. Roberto Croce
1:00 PM – 1:40 PM	<p>ICTE Keynote Lecture I - Room B: <i>Traffic Engineering in Post-Industrial Era</i> Petr Holcner Brno University of Technology, Czech Republic</p>	

1:40 PM – 3:00 PM (Parallel Session) - Room A

Session Name: Environmental Sustainability, Development, and Protection I	Session Chair: Dr. İlknur Durukan Temuge
1:40 PM – 1:50 PM	<p>ICESDP 111: <i>Plans and Living Practices for the Green Campus of Portland State University</i> Yoon Jung Choi, Minjung Oh, Jihye Kang, Loren Lutzenhiser Chungbuk Nat'l Univ., South Korea</p>
1:50 PM – 2:10 PM	<p>ICESDP 107: <i>Modelling CO2 Emissions between China and Taiwan Using Lotka-Volterra Equations</i> Bi-Huei Tsai, Chun-Hsien Chang National Chiao Tung University, Taiwan</p>
2:10 PM – 2:30 PM	<p>ICESDP 104: <i>Isolation, Screening and Activity of Hydrocarbon-Degrading Bacteria from Harsh Soils</i> Zulfa AlDisi, Samir Jaoua, Dhabia Al-Thani, Saeed AlMeer, Nabil Zouari Qatar University, Qatar</p>
2:30 PM – 2:50 PM	<p>ICESDP 103: <i>Flow Velocity Effect on Clear Water Bridge Pier Scour</i> Mehmet Öner Yeleğen, Ali Uyumaz Fatih Sultan Mehmet Vakif University, Turkey</p>
2:50 PM – 3:00 PM	<p>ICESDP 102: <i>Improved Power Production of Tidal Current Power by Reformed Turbine Configuration</i> Chul H. Jo, Doyoub Kim, Chan H. Goo Inha University, South Korea</p>

1:40 PM – 2:50 PM (Parallel Session) - Room B

Session Name: Water & Wastewater Pollution and Treatment I		Session Chair: Dr. Szabolcs Szilveszter
1:40 PM – 1:50 PM	<p>AWSPT 103: <i>Initial Energy Content of Cells Improve Efficiency of Activated Sludge Acclimation and Degradation of a Xenobiotic Compound</i> Nyuk-Min Chong, Lan Huong Nguyen Da-Yeh University, Taiwan</p>	
1:50 PM – 2:10 PM	<p>AWSPT 111: <i>Measuring and Evaluating the Performance of a Wastewater Treatment Plant</i> Mohamed H. Hegazy, Mohamed A. Gawad British University in Egypt (BUE), Egypt</p>	
2:10 PM – 2:30 PM	<p>AWSPT 118: <i>Evaluation of Manganese Removal rate for MF Pilot Test</i> Hyungjae Yang, Seounghoon Yi, Yangsuk Song, Younghoon Park, Gyeongrok Son, Yeongju Kang POSCO ICT, South Korea</p>	
2:30 PM – 2:50 PM	<p>AWSPT 130: <i>Chitosan – A Natural Adsorbent for Copper Ions</i> Mandy Mende, Dana Schwarz, Simona Schwarz Leibniz-Institut für Polymerchemie Dresden e.V., Germany</p>	
2:55 PM – 3:10 PM	Coffee Break	

3:10 PM – 4:20 PM (Parallel Session) - Room B

Session Name: Construction Safety and Standards		Session Chairs: Dr. Kemal Hacıfendioğlu & Dr. Abolhassan Astaneh-ASL
3:10 PM – 3:30 PM	<p>ICSENM 105: <i>Analytical Approach to the Bond Strength of Plain Round Bars under Lateral Tensile Stresses</i> Xue Zhang, Changming Lv, Zhimin Wu, Jinping Ou Dalian University of Technology, China</p>	

3:30 PM – 3:40 PM	<p>ICSENM 108: <i>Evaluation of Deflections of Prestressed Concrete Beams</i> Min Sook Kim, Young Hak Lee Kyung Hee University, South Korea</p>
3:40 PM – 3:50 PM	<p>ICSENM 109: <i>Comparison of Tension Stiffening Models for High Strength Concrete Beams</i> Min Sook Kim, Young Hak Lee Kyung Hee University, South Korea</p>
3:50 PM – 4:10 PM	<p>ICSENM 106: <i>Construction Approach to Maintain Composite Action for Continuous Composite Girders</i> Alfarabi Sharif, Mohammad Samaaneh King Fahd University of Petroleum and Minerals, Saudi Arabia</p>
4:10 PM – 4:20 PM	<p>ICSENM 120: <i>Proposed Cyclic Loading Protocol of Moment-Resisting Connections for Soft Soil Sites</i> Sadegh Dardaei, Farhad Daneshjoo Tarbiat Modares University, Iran</p>
3:10 PM – 4:50 PM (Parallel Session) - Room A	
Session Name: Traffic Management	Session Chairs: Dr. Jiří Němeček & Dr. Petr Holcner
3:10 PM – 3:30 PM	<p>ICTE 104: <i>A Comparative Numerical Study on Freeway Weaving Area using a Multi-class First-order Macroscopic Model</i> Saeed Mohammadian, Abolfazl Mohammadzadeh Moghaddam, Ali Sahaf Ferdowsi University of Mashhad, Iran</p>
3:30 PM – 3:50 PM	<p>ICTE 105: <i>Use of Laser Measurements and Video Images to Investigate Pedestrian Movement along Non-Uniform Sidewalks</i> Mehmet Caputcu, Burak Sengoz, Mustafa Ozuysal, Serhan Tanyel, Sezin Kaplan, Aykut Karabayir Gediz University, Turkey</p>

3:50 PM – 4:10 PM	ICTE 106: <i>Study on the Beijing Transportation Energy Saving and Consumption Reduction under the Total Energy Consumption Restriction</i> Hong Hu , Runzhuo Wang, Yanfen Tang Beijing Energy Conservation and Environmental Protection Center, China
4:10 PM – 4:30 PM	ICTE 107: <i>Case Study: Public Transport Management System for Kousba – Chekka Roadway</i> Georges Najib , Fawaz Samer, Karam George University of Balamand, Lebanon
4:30 PM – 4:50 PM	ICTE 111: <i>Factors Affecting Public Transport in Petaling Jaya, Malaysia: An Extension of the Theory of Planned Behaviour</i> A. Madha , H. Dhafir, A. Dawood UKM, Malaysia
4:50 PM – 5:50 PM - Room A	
Session Name: Geotechnical Research and Engineering II	Session Chair: Dr. Henning Lesemann
4:50 PM – 5:10 PM	ICGRE 114: <i>The Influence of a Laboratory Testing Method on the Index of Density of Sand</i> Waldemar St. Szajna , Paulina Lechocka University of Zielona Gora, Poland
5:10 PM – 5:30 PM	ICGRE 115: <i>Predicting the Vegetation Expansion in Selangor, Malaysia using the NDVI and Cellular Automata Markov Chain</i> Goma Bedawi Ahmed , Abdul Rashid M. Shariff University Putra Malaysia, Malaysia
5:30 PM – 5:50 PM	ICGRE 116: <i>CBR of Soaked Clay Drained by Sandy Layer</i> Robert Nini University of Balamand, Lebanon

Thursday

March 31

9:00 AM – 9:40 AM	AWSPT Keynote Lecture II - Room A: <i>Microwave Induced Pyrolysis of Sewage Sludge</i> Petr Hlavínek Brno University of Technology, Czech Republic	Session Chair: Dr. Jiří Němeček
9:40 AM – 9:55 AM	Coffee Break	
9:55 AM – 10:55 AM - Room A		
Session Name: Composites and Construction II		Session Chair: Dr. Xue Zhang
9:55 AM – 10:15 AM	ICSENM 102: <i>Properties of Alkali Activated Slag Mortar after Exposure to Elevated Temperatures for Different Time</i> Tao Li, Ya-mei Zhang, Jian-guo Dai Southeast University Nanjing, China	
10:15 AM – 10:35 AM	ICSENM 110: <i>A Research on Effect of Sewage Sludge Ash on the Mechanical Properties of Composite Material</i> M. Akif Kutuk, Z. Abidin Oguz University of Gaziantep, Turkey	
10:35 AM – 10:55 AM	ICSENM 118: <i>Failure Analysis of Flood Collapse of the Tex Wash Bridge</i> Maryam Tabbakhha, Abolhassan Astaneh-Asl, Daniel Christian Setioso University of California at Berkeley, USA	

10:55 AM – 11:35 AM - Room A

Session Name: Industrial Waste and Health Issues		Session Chair: Dr. Mohamed Hegazy
10:55 AM – 11:05 AM	AWSPT 113: <i>Physiological Effects of Five Herbicides on Wheat Cultivars</i> Veli Çeliktaş, Sema Düzenli, Hande Otu Cukurova University, Turkey	
11:05 AM – 11:15 AM	AWSPT 127: <i>Characterising Seasonal Variations and Spatial Distribution of Ambient Particulate Matter Concentrations in Turkey</i> Gulen Gullu Hacettepe University, Turkey	
11:15 AM – 11:25 AM	AWSPT 128: <i>SO₂ Emission Monitoring with Remote Sensing for Turkey</i> S. Yeser Aslanoglu and Gulen Gullu Hacettepe University, Turkey	
11:25 AM – 11:35 AM	AWSPT 126: <i>Remediation of PAH-Contaminated Soils: Experimental Analysis and Modeling of Hydrodynamics and Mass Transfer in a Soil-Slurry Bioreactor</i> D. Pino-Herrera, Y. Pechaud , D. Huguenot, Y. Fayolle, S. Pageot, N. Oturan, G. Esposito, E.D. van Hullebusch, M.A. Oturan Université Paris-Est, France	

11:35 AM – 12:15 PM - Room A

Session Name: Environmental Sustainability, Development, and Protection II		Session Chairs: Dr. Nabil Zouari & Dr. Bernard H. Kueper
11:35 AM – 11:45 AM	ICESDP 109: <i>Product Environmental Footprint for Feed Production in Thailand</i> Prakaytham Suksatit , Nongnuch Poolsawad, Wanwisa Thanungkano, Jitti Mungkalasiri National Metal and Materials Technology Center (MTEC), Thailand	

11:45 AM – 11:55 AM	<p>ICESDP 108: <i>Novel Solar-Thermal Systems Based on Polymeric Materials - A Science-Driven Comprehensive Research Initiative</i> Reinhold W. Lang, Gernot M. Wallner, Jorg Fischer Johannes Kepler University Linz, Austria</p>		
11:55 AM – 12:05 PM	<p>ICESDP 112: <i>Functionalized Tertiary Amines as SO₂ Absorbents</i> Hoon Sik Kim, Minjeong Kim, Minserk Cheong Kyung Hee University, South Korea</p>		
12:05 PM – 12:15 PM	<p>ICESDP 113: <i>Determination of Antimony in Drinking Water Leaching from Polyethylene Terephthalate Bottles</i> İlknur Durukan Temuge, Deniz Atakan, Sema Bektaş Hacettepe University, Turkey</p>		
12:15 PM – 1:15 PM	Lunch		
1:15 PM – 2:05 PM - Room A			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; text-align: center;"> Session Name: Miscellaneous </td> <td style="width: 40%; text-align: center;"> Session Chair: Dr. Roberto Crocetti </td> </tr> </table>		Session Name: Miscellaneous	Session Chair: Dr. Roberto Crocetti
Session Name: Miscellaneous	Session Chair: Dr. Roberto Crocetti		
1:15 PM – 1:35 PM	<p>ICSENM 111: <i>Numerical Study of Influence of Infill Walls on the Vertical Irregularity Limit of Turkish Seismic Code</i> Ugur Durak, Kamil Aydin Erciyes University, Turkey</p>		
1:35 PM – 1:45 PM	<p>ICSENM 112: <i>Field Investigation for Deck Slab Deterioration of In-Service Bridges in Korea</i> WooSeok Kim, Chan Jeoung, Yoseok Jeong, Ilkeun Lee Chungnam National University, South Korea</p>		

1:45 PM – 2:05 PM	<p>ICSENM 122: <i>Automatic Scheme for Inelastic Column Buckling</i> Raghavan Ramalingam, S. Arul Jayachandran Indian Institute of Technology Madras, India</p>
2:05 PM – 2:20 PM	Coffee Break
2:20 PM – 3:00 PM - Room A	
Session Name: Water & Wastewater Pollution and Treatment II	Session Chairs: Dr. Nyuk Min Chong & Dr. Gulen Gullu
2:20 PM – 2:30 PM	<p>AWSPT 109: <i>Estrogenicity and Endocrine Disrupting Compounds in Istanbul Tap Water: A Case Study</i> Egemen Aydin, Badel Gun, M. Begum Tanis, Nilay Bilgin, Emel Topuz, Elif Pehlivanoglu-Mantas Istanbul Technical University, Turkey</p>
2:30 PM – 2:40 PM	<p>AWSPT 129: <i>Characterization of Humic Acid and its Size Fractions Following Adsorption onto Anion-Doped TiO₂ Specimens by Fluorescence Spectroscopic Studies</i> Perihan Akan, Nazmiye Cemre Birben, Miray Bekbolet Hacettepe University, Turkey</p>
2:40 PM – 2:50 PM	<p>AWSPT 131: <i>Phenol Removal and Bioaugmentation Potential Analysis of Different Bacterial Strains in Wastewater</i> Szabolcs Szilveszter, Dezső-Róbert Fikó, István Máthé, Tamás Felföldi Sapientia Hungarian University of Transylvania, Romania</p>
2:50 PM – 3:00 PM	<p>AWSPT 132: <i>Phenol degradation potential of bacteria isolated from extreme habitats</i> Dezső-Róbert Fikó, Erika Kovács, Szabolcs Szilveszter, Tamás Felföldi, István Máthé Sapientia Hungarian University of Transylvania, Romania</p>

3:00 PM – 4:10 PM - Room A

Thursday

Session Name:
Seismic Control

Session Chair:
Dr. Jiří Němeček

3:00 PM – 3:10 PM

ICSENM 107: *Inelastic Stress Analysis of Curved Beams with Bending and Shear Coupling*
Yen-Po Wang, Chien-Liang Lee, Shih-Chiao Huang
National Chiao-Tung University, Taiwan

3:10 PM – 3:30 PM

ICSENM 114: *Bolt Slippage Evaluation in Column-tree Steel Moment Connection on L/d*
Kangmin Lee, **Keunyeong Oh**, Jaehyuk So
Chungnam National University, South Korea

3:30 PM – 3:50 PM

ICSENM 116: *Development of a New Steel Moment Connection*
Xin Qian, **Abolhassan Astaneh-Asl**
University of California at Berkeley, USA

3:50 PM – 4:10 PM

ICSENM 117: *Behaviour and Seismic Design of Stiffeners for Steel Bridge Tower Legs and Piers*
Xin Qian, **Abolhassan Astaneh-Asl**
University of California at Berkeley, USA

8:00 PM – 10:00 PM

Cruise Tour

Poster Session

March 31

ICESDP 105: *Optimization of Apartment-House Design Factors in View of Sunlight and Outdoor Thermal Environment in South Korea*

Seonghwan Yoon, Sukjin Jung, **Dongsik Kim**, Junho Choi

Pusan National University, South Korea