

STREQ1

Structural Engineering and Earthquake Engineering Session 1; 17 October 2012 12:00-13:30 Hall: Kemal Kurdaş		
Session Chair : Michael Fardis		
Abstract Number	Title	Authors
1254	Lateral Load Behavior of Low-Rise Structural Walls	Kutay Orakçal, Tevfik Terzioğlu, Leonardo M. Massone
298	Experimental Investigation of RC Columns Strengthened with Carbon Fiber-Reinforced Polymer and Ferrocement	Bayar J. Al-Sulyfani, Mohamad Najim Mahmood, Salwa M. Abdullah
95	Behaviour of RC framed building with different types of knee brace systems	Esra Mete Güneyisi, Ayşegül Gültekin
361	Lap Splice Behavior of Self Compacting Concrete	Erdem Canbay, Mehran Ghasabeh
332	Investigation of Lateral Pressures Considering Silo Wall-Grain Interaction with the Comparison of Numerical and Analytical Methods	Zeki Karaca, Eprar Özel
540	Behavior of Reinforced Concrete Slabs Subjected to Impact Loading	Selçuk Saatçi, Baturay Batarlar

STREQ2

Structural Engineering and Earthquake Engineering Session 2; 17 October 2012 15:30-17:00 Hall: Kemal Kurdaş		
Session Chair : Ayşe Daloğlu		
Abstract Number	Title	Authors
798	Evaluation of an Existing Reinforced Concrete Building Damaged Under Its Own Weight	Ahmet Yakut, Atilla Bayraktar, Hasan Hüsnü Korkmaz
893	Fire Analysis of Reinforced Concrete Columns with Different Methods	Oğuz Burnaz, Ahmet Durmuş
634	An Investigation on Torsional Behavior of RC Beams Strengthened With CFRP	Bayar Jaafar Al-Sulayfani, Khalaf İbrahim Mohammad
1224	Comparison of Seismic Retrofit Methods for Nonductile RC Structures by Using Pseudo Dynamic Testing Procedures	Ramazan Özçelik, Efe Kurt, Barış Binici, Özgür Kurç, Erdem Canbay, Güney Özcebe
746	Empirical Determination of the Fundamental Period of Vibration of Multi Storey RC Buildings	Hamdy A. Elgohary
654	An Experimental Study on a Hybrid Precast Concrete Beam-Column Connection	Eray Baran, Mehmet Baran, Metin Kurtoğlu

STREQ3

Structural Engineering and Earthquake Engineering Session 3; 17 October 2012 17:30-19:00 Hall: Kemal Kurdaş		
Session Chair : Eray Baran		
Abstract Number	Title	Authors
1000	Stability Analysis of Semi-Rigid Frames with Rigid End Sections Accounting for Shear Deformations	Halil Görgün, Sercan Kaymak
1209	Post Buckling Behavior Of A Spherical Cap Subjected To Various Ring Loads	Cengiz Polat, Yusuf Calayır
1445	The Effect of Temperature on the Behavior of Laminated Glass Cylindrical Shell Structures	Ebru Dural, M. Zülfü Aşık
556	Analytical Solution of Isotropic Deep Rectangular Beam Using Displacement Potential Functions	Saba Rashidi, Bahram Navayi-Neya, Mehdi Nematzadeh
1030	Finite Element Modelling Techniques of Steel Latticed Transmission Towers	Ömer Burak Yücel, Oğuzhan Hasaıçebi, Cenk Tort

STREQ11

Structural Engineering and Earthquake Engineering Session 11; 17 October 2012 12:00-13:30 Hall: C		
Session Chair : İhsan Bal		
Abstract Number	Title	Authors
190	Comparison of Temperature Rises in the Lead Core of LRBs under both Uni- and Bi-directional Earthquake Excitations	Gökhan Özdemir, Beyhan Bayhan
730	Effectiveness of Seismic Isolation in Protecting Sensitive Contents against Near-Fault Earthquakes of Various Magnitudes	Seda Öncü, Cenk Alhan
1103	An Overturning Moment-Based Adaptive Pushover Procedure for Seismic Evaluation of Shear Wall Structures	Malik Atik, Marwan Sadek, Isam Shahrouh, Ramzi Messahel
201	Seismic Performance of Bridges Isolated with LRB under Simulated Near-Fault Motions When Lead Core Heating is of Concern	Gökhan Özdemir, Murat Dicleli
	Sponsor Presentation: Issues related to design of seismically isolated highspeed railway bridges in proximity of the major faults	Cenan Özkaya, Güliden Çetin, Fikret Tulumtaş

STREQ12

Structural Engineering and Earthquake Engineering Session 12; 17 October 2012 15:30-17:00 Hall: C		
Session Chair : Kutay Orakçal		
Abstract Number	Title	Authors
622	Experimental and Numerical Investigation of Wind Effects on Long Span Bridge Decks	Iman Ashtiani Abdi, Anas Abdulrahim, Senem Haser, Oğuz Uzol, Özgür Kurç
625	Estimation of Wind Loads on Tall Buildings through Wind Tunnel Testing	Bengi Kayışoğlu, Özgür Kurç, Oğuz Uzol
766	Structural Fire Resistance of Cut and Cover Tunnels	Kemal Sarp Arsava, Alp Caner
1036	Dynamic Behaviour of Cable-Stayed Bridges under Earthquake and Traffic Loads	Hüseyin Kartal, Kurtuluş Soyluk
1066	Optimization of Maintenance, Repair and Rehabilitation Actions in a Novel Bridge Management System	Ferhat Akgül, Faraz Masoumi

STREQ13

Structural Engineering and Earthquake Engineering Session 13; 17 October 2012 17:30-19:00 Hall: C		
Session Chair : Beyhan Bayhan		
Abstract Number	Title	Authors
1442	Seismic Retrofit of a Typical RC Building in Turkey – Comparison of FRP Technology versus Traditional Techniques	Eleni Smyrou, Michael J. Karantzakis, İhsan E. Bal
218	Reliability Analysis of Reinforced Concrete Frames Strengthened by Steel Knee Brace	Aziz Hosseinezhad, Bagher Heidarpour, Bahman Panjalizade
818	Investigation of the Strength and the Stability Analysis of the Reinforced Concrete Frames with Infill Walls	Xanlar Seyfullayev, Yaşar Uğur, İsa Eyyubov, Cemal Eyyubov
1279	An Experimental Study of the Jacketed R/C Beams with Precast R/C Plates	Ali Demir, Muhammed Tekin, Muhiddin Bağcı, Ayhan Nuhoğlu
1375	PEER Performance-Based Earthquake Engineering Methodology: Revisited and Extended to Sustainable Designs	Mehmet Selim Günay, Khalid Mahmoud Mosalam

Engineering Materials Session 1; 17 October, 2012			12:00-13:30	Hall D
Session Chair : Özgür Yaman				
Abstract Number	Title	Authors		
170	A New Test Method for Dynamic Segregation Resistance of Self-Consolidating Concrete using L-box Apparatus	Paki Turgut, Kâzım Türk, Hasan Bakırcı		
353	The Investigation of the Variation of Compressive Strength, Unit Weight and Water Absorption of Self-Consolidation Concrete along Structural Element	Mücteba Uysal, Kemalettin Yılmaz		
1222	Investigation of Long Term Durability of Natural Zeolite Incorporated Eco-SCC	Ali Akbar Ramezaniapour, Ali Kazemian, Morteza Sarvari, Babak Ahmadi, Mohammad Abdolhosseini Moghadam		
1374	Properties of Fresh Self-Compacting Concrete Containing Slag	Belkacem Menadi, Said Kenai, Omar Kouider-Djelloul		
339	Tensile Behavior of Chemically Bonded Post-Installed Anchors in Low-Strength Reinforced Concretes	Levent Mazılıgüney, İsmail Özgür Yaman		
565	Effects of Alternative Fuels and Raw Materials in Sustainable Cement Production	Özgür Ekinçioğlu, Aslı Pelin Gürgün, Yasin Engin, Muhittin Tarhan, Sezgi Kumbaracıbaşı		

MAT2

Engineering Materials Session 2; 17 October, 2012			15:30-17:00	Hall D
Session Chair : Yılmaz Akkaya				
Abstract Number	Title	Authors		
662	The Investigation of Chloride Ion Permeability and Compressive strength of the Mortars Exposed to Alkali-Silica Reaction	Korkmaz Yıldırım, Mansur Sümer, Mücteba Uysal		
727	Effect of Fly Ash Fineness on Alkali Aggregate Expansion of Mortars	Süleyman Bahadır Keskin, Özlem Kasap-Keskin, Burhan Aleessa-Alam, İsmail Özgür Yaman		
1196	Effectiveness of Mineral Admixtures in Reducing Asr Expansion	Esmâ Gizem Aydın, Hasan Yıldırım		
304	Effect of Recycled Aggregates on the Strength and Alkali Silica Reaction (ASR) Potential of Mortar Mixtures	Ali Mardani-Aghabaglou, Murat Tuyan, Özge Andiç-Çakır, Kambiz Ramyar		
1433	Production and Environmental Impact Assessment of Fly Ash and GBFS Replaced Pervious Concrete by Using Recycled Concrete Aggregates	Tuğhan Delibaş, Aslı Kesim, İsmail Özgür Yaman, Mustafa Tokyay		
252	Improvement of the Expansive Soils by the Lime for Their Use in Road Works	Mekki K Mellas, Ali Hamdane, Djamel Benmeddour, Abdelhak Mabrouki		

MAT3

Engineering Materials Session 3; 17 October, 2012			17:30-19:00	Hall D
Session Chair : Mustafa Tokyay				
Abstract Number	Title	Authors		
829	Strength and Transport Properties of Mortar Mixtures Containing Crushed or Natural River Fine Aggregate	Jamshid Esmaeili, Ghafour Alizadeh, Jamil Kasaei		
1365	Water Vapour Sorption of Building Materials - New Measurements	Ruta Miniotaite		
1379	The Influence of Sorption Moisture upon Moisture-Caused Deformations of Common Building Materials	Ruta Miniotaite		
110	Freezing and Thawing Resistance of Concrete at High Freezing Rates	Yuşa Şahin, Yılmaz Akkaya, Mehmet Ali Taşdemir		
782	Drying Shrinkage of Concrete: A Case Study in Ankara	Burhan Aleessa-Alam, Süleyman Bahadır Keskin, İsmail Özgür Yaman		
827	Effect of Internal Curing Using Lightweight Scoria Fine Aggregates on Autogenous Shrinkage, Strength and Transport Properties of Cement Mortars	Jamshid Esmaeili, Jamil Kasaei, Ghafour Alizadeh		

Hydraulic Engineering Session 1; 17 October, 2012		12:00-13:30	Hall B
Session Chair : Mustafa Göğüş			
Abstract Number	Title	Authors	
0541	Scour Countermeasure Design for Sequential Viaducts on Ankara – Pozantı Highway	Ali Melih Yanmaz, Egemen Çam	
0176	Estimation of Local Scour Dimension in Downstream of Siphon Spillway Using of Data Driven Methods	Reza Jafarinia, Kourosh Qaderi, Adel Pournemat-Roudsari	
0688	Effect of Abutment Length on Scour Pattern for Abutments With Curved Toe	Mustafa Göğüş, Mete Köken, Burhan Yıldız	
0767	Experimental Study of Local Scour Downstream of Cylindrical Bridge Piers	Mohammed Tariq Al-Shareef, Mustafa Günal	
0675	Criteria for Choosing Correct Turbine for Small Hydropower Plants	Ali Günyaktı	

HYD2

Hydraulic Engineering Session 2; 17 October, 2012		15:30-17:00	Hall B
Session Chair : Nuray Denli Tokyay			
Abstract Number	Title	Authors	
0120	Numerical Investigation of Operation Levels in a Surge Tank of a Small Hydropower Plant	Melih Çalamak, Zafer Bozkuş	
0819	Investigation of Waterhammer in Camlidere Dam-Ivedik Water Treatment Plant Pipelines	Emre Sakabaş, Zafer Bozkuş	
0181	Experimental and Numerical Modeling of Free Hydraulic Jump Downstream of a Gate	Veysel Gümüş, Mevlüt Sami Aköz, Oğuz Şimşek, Nazire Göksu Soydan, Mehmet Salih Kırkgöz	
1194	Experimental Investigation of Vertical Distribution of Suspended Sediment after Hydraulic Jump	Siavash Haghighi, Mohammad Reza Kavianpour, Keyvan Nasiri	
0942	Effects of Bed Roughness on the Characteristics of Hydraulic Jumps	Nuray Denli-Tokyay, Deniz Velioğlu	

HYD3

Hydraulic Engineering Session 3; 17 October, 2012			17:30-19:00	Hall B
Session Chair : Ali Günyaktı				
Abstract Number	Title	Authors		
0184	Experimental and Numerical Modeling of Flow over a Gate-Controlled Semi-Cylinder Weir	Mehmet Salih Kırkgöz, Veysel Gümüş, Nazire Göksu Soydan, Oğuz Şimşek, Mevlüt Sami Aköz		
0913	Discharge Formula for Sharp-Crested Rectangular Weirs	Siamak Gharahjeh, İsmail Aydın, A. Burcu Altan-Sakarya		
1045	Identification of Effective Dimensionless Parameters in Total Sediment Transport Loads by the Principal Component Analysis	Yashar Karimi, Gökmen Tayfur		
1007	Application of Current Deflecting Wall-Sill on Sediment Control at Lateral Intake	Ghorban Mahtabi, Ali Hosseinzadeh-Dalir, Davood Farsadizadeh, Siamak Gharahjeh		
1424	Numerical Modeling of Navier-Stokes Equations Based Water Wave Propagation Using Radial Basis Function Collocation Method	Yavuz Tokmak, Osman S. Börekçi		

Geotechnical Engineering Session 1; 17 October, 2012		12:00-13:30	Hall A
Session Chair : Erdal Çokça			
Abstract Number	Title	Authors	
471	Investigation of the Vertical Stress of Square Foundations at Different Loads and Depths on Sandy Soils	Baki Bağrıaçık, Mustafa Laman, Ahmet Demir	
590	Effect of Load Distribution on Raft Behavior for Piled Foundations in Ankara Clay	Volkan Kalpakcı, Yener Özkan	
1412	An Investigation of Bearing Capacity of Footings over Layered Soils	Ahmet Demir, Mustafa Laman, Murad Abu-Farsakh, Qiming Chen, Murat Örnek, Baki Bağrıaçık	
335	Three-Dimensional Bearing Capacity of Rough Circular Footing in Sand	Abdelhak Mabrouki, Mekki K. Mellas, Djamel Benmeddour	
1255	Settlement Analysis of Geogrid Reinforced Granular Fill Underlain by Clay	Murat Örnek, Ahmet Demir, Mustafa Laman, Abdülazim Yıldız	

TRANS1

Transportation Engineering Session 1; 17 October, 2012			12:00-13:30	Hall H
Session Chair : Leyla Ünal				
Abstract Number	Title	Authors		
960	Improving the performance of urban public transport systems: case study of Denizli, Turkey	Görkem Gülhan, Cenk Ozan, Hüseyin Ceylan, Özgür Başkan, Yetiş Şazi Murat, Soner Haldenbilen, Halim Ceylan		
998	Determination of the Traffic Assignment Principle for the Road Freight Transportation in Turkey	Murat Özen, Hediye Tüydeş-Yaman		
1106	Application of PSO Algorithm for OD Matrix Estimation in Large Scale Networks	Mehrdad Gholami Shahbandi, Abbas Babazadeh		
1272	Air Passenger Demand Forecasting for Planned Airports, Case Study: Ordu-Giresun Airport	Soner Osman Acar, Rıza Onur Yazıcı, Meriç Gökdalay		

TRANS2

Transportation Engineering Session 2; 17 October, 2012			15:30-17:00	Hall G
Session Chair : Dilruba Özmen-Ertekin				
Abstract Number	Title	Authors		
185	Effect of Dwell Times On Performance Of Signalized Intersections	Kiarash Ghasemlou, Metin Mutlu Aydın, Serhan Tanyel, Ali Topal, Süheyla Pelin Çalışkanelli		
598	Investigating the Effects of Variable Speed Limits on Freeway Traffic Flow Performance	Ali Sercan Kesten, Murat Ergün, Tetsuo Yai		
1451	Modeling Multi-Class Traffic Flows using Hydrodynamic Model	Hediye Tüydeş-Yaman, Kağan Tuncay		

TRANS3

Transportation Engineering Session 3; 17 October, 2012			17:30-19:00	Hall G
Session Chair : Cumhuri Aydin				
Abstract Number	Title	Authors		
112	Safety Analysis of Unconventional U-Turn Using Neural Network and Crash Prediction Model	Leila Azizi, Abdolreza Sheikholeslami, Fatemeh Bagheri Khalili		
296	Assessing Sustainable Campus Transportation Policies Using Simulation	Oruc Altintasi, Hediye Tuydes Yaman		
791	The Role of Young Drivers (University Students) in Traffic Accidents	Yalcin Alver, Pelin Onelcin, Doruk Akgul, Tolga Tortumluoglu		
792	Bikeway Usage Survey for Campus of Ege University and a Bikeway Project for the Campus	Damla Korkmaz, Tugce Sana, Pelin Onelcin, Yalcin Alver		
977	Investigation Of The Effect Of Micro Roughness On Traffic Safety At Urban Intersections	Meltem Saplioglu, Emel Yuzer, Ekinhan Eriskin		
1430	Sustainability Analysis of Metropolitan Transport Networks Under Unexpected Traffic Demands	Iradj Ouveysi, Majid Sarvi		

Construction Engineering and Management Session 1; 17 October, 2012			12:00-13:30	Hall F
Session Chair : Emin Öcal				
Abstract Number	Title	Authors		
1014	Enhancing Civil Engineering Education For 21st Century Civil Engineers	Halit Cenan Mertol		
1039	Application of Value Engineering in Construction Projects	Şenay Atabay, Niyazi Galipoğulları		
1192	The Comparison of Construction Management Practices in The United States and in Turkey	Dostcan Sevim, Murat Kuruoğlu, Volkan Ezcan, Harun Övünç Oral		
859	Effectiveness of knowledge management activities in the Turkish construction industry	Beliz Özorhon, Cenap Goktuğ Karataş, Hasan Altun		
426	Analysis of Architectural Design Process within the Scope of Project Management	Güliden Gümüşburun-Ayalp, Mehmet Emin Öcal		

CM2

Construction Engineering and Management Session 2; 17 October, 2012			15:30-17:00	Hall F
Session Chair : Ekrem Manisalı				
Abstract Number	Title	Authors		
463	Steel Roof Works of Seyrantepe Stadium in terms of Construction Management	Semih Göksel Yıldırım		
535	Assessment of LEED Requirements for Energy and Atmosphere in Turkey	Rüveyda Kömürlü, David Arditi, Aslı Pelin Gürgün		
722	Implementation of Lean Construction in Power Plant Projects: Construction Processes Wastes Management	Mehdi Rashid, Gholamreza Heravi		
453	BIM Implementation in Developing Countries	Navid Sanei-Sistani, Alireza Rezaei		
1203	Sustainable Airports Planning and Construction Practices in the Context of Environmental Bioethics	Nurhan Oto, Nesrin Çobanoğlu		

CM3

Construction Engineering and Management Session 3; 17 October, 2012			17:30-19:00	Hall F
Session Chair : Mümtaz Üsmen				
Abstract Number	Title	Authors		
191	Regulation Management on Worker Health and Safety: The Position of the Turkish Construction Industry	Serdar Ulubeyli, Aynur Kazaz, Bayram Er		
1320	A Survey on Health and Safety Issues on Construction Sites in Turkish Republic of Northern Cyprus	Moin N. Naim, Gürkan Emre Gürcanlı, Tahir Çelik		
823	Improving health and safety trainings in construction using dramas	Gökhan Arslan, Serkan Kıvrak		
536	Challenges in Effective Construction Safety Training	Sevilay Demirkesen, David Arditi		
1270	An Investigation on Delay, Cost Overrun, Quality, and Health and Safety Problems in Construction Projects	Tahir Çelik, Changiz Ahabab		

COAST1

Coastal and Harbor Engineering Session 1; 17 October, 2012			12:00-13:30	Hall G
Session Chair : Ahmet Cevdet Yalçiner				
Abstract Number	Title	Authors		
1285	Field Survey on the Coastal Impacts of March 11, 2011 Great East Japan Tsunami	Ahmet Cevdet Yalçiner, Ceren Özer, Andrey Zaytsev, Anawat Suppasri, Erick Mass, Öcal Necmioğlu, Fumihiko Imamura, Costas Synolakis, Nurcan Meral Özel, Nikos Kalligeris		
757	Wave Power Potential of North Cyprus	Çetin Mazharoğlu, Barış Hiçsönmez		
995	Rehabilitation of Damaged Coasts Using Beach Nourishment and a Case Study in Izmit Bay	Alper Mert, Emre N. Otay		