21 SEPTEMBER 2016

09:30-10:15 OPENING CEREMONY – ALBERT LONG HALL

10:15-11:00 KEYNOTE SPEECH- ALBERT LONG HALL
SURENDRA P.SHAH
Chair: Nilüfer Özyurt Zihnioğlu

11:00-11:30 COFFEE BREAK

11:30-13:00 STR 1- PERFORMANCE BASED DESIGN & EVALUATION / VYCH1
Chair: Kutay Orakçal

PERFORMANCE BASED SEISMIC DESIGN OF REINFORCED CONCRETE TALL BUILDINGS
Erhan Budak, Haluk Sucuoğlu

PERFORMANCE - BASED SEISMIC DESIGN OF REINFORCED CONCRETE FRAME BUILDINGS: A DIRECT DISPLACEMENT BASED APPROACH
Nisar Ahmad Karimzada, Engin Aktaş

MOTION SELECTION AND SCALING FOR THE SEISMIC INVESTIGATION OF THE CONCRETE GRAVITY DAMS
Milad Bybordianiz, Yalın Arıcı

EFFECT OF MODELLING ASSUMPTIONS ON COLLAPSE CAPACITY ESTIMATION
Ziya Müderrisoğlu, Saeed Ghaemian, Ufuk Yazgan

THE EFFECT OF SOIL STRUCTURE INTERACTION ON SEISMIC DISPLACEMENT DEMANDS OF EXISTING STRUCTURES
Bayram Tanık Çaycı, Mehmet İnel

INFLUENCE OF WEAK BEAM-COLUMN JOINT MODELING ON SEISMIC RESPONSE OF OLDER- GENERATION RC BUILDINGS
Beyhan Bayhan, Gökhan Özdemir, Polat Gülkan

COMPUTATIONAL MODELLING OF PRESSURIZED REINFORCED CONCRETE TUNNEL LININGS
Kağan Tuncay, Barış Binici, İsmail Özgür Yaman
12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING
ACE 2016
21 - 23 September 2016
Boğaziçi University, Istanbul / Turkey

SEISMIC DAMAGE ESTIMATION ON REGIONAL BASIS: A CASE STUDY
Murat Altuğ Erberik, Ayşegül Askan

11:30-13:00 STR 9- DAMS & GROUND MOTION / VYCH2
Chairs: Metin Hüsem, Serdar Soyöz

ELASTIC FOUNDATION EFFECTS ON ARCH DAMS
Muhammet Karabulut, Murat Emre Kartal, Ömer Faruk Çapar, Murat Çavuşlu

NEAR-FAULT GROUND MOTION PULSE EFFECTS ON THE DYNAMIC BEHAVIOR OF CONCRETE GRAVITY DAM-RESERVOIR-Foundation Systems USING DIFFERENT WATER MODELLING APPROACHES
Ahmet Can Altunışık, Hasan Sesli, Metin Hüsem, Mehmet Akköse

DEFICIENCIES OF 2D MODELING FOR THE PREDICTION OF SEISMIC DEMANDS ON THE CONCRETE GRAVITY DAMS
Milad Bybordiani, Yalın Arıcı

SEISMIC FRAGILITY ASSESSMENT OF CONCRETE GRAVITY DAMS USING INCREMENTAL DYNAMIC ANALYSIS
Berat Feyza Soysal, Yalın Arıcı

SIMULATION OF SPATIALLY VARYING AND SITE DEPENDENT RESPONSE SPECTRA
Zamila Harichane, Hakima Djilali Berkane

VARIATION IN DAMPING REDUCTION FACTOR DUE TO GROUND MOTION DIRECTIONALITY
Gökhan Özdemir, Beyhan Bayhan

EFFECTS OF SOIL PARAMETERS UNCERTAINTIES ON FOUNDATION IMPEDANCE FUNCTIONS
Mohamed Elhebib Guellil, Zamila Harichane

ASSESSMENT OF SIMULATED GROUND MOTIONS FOR THEIR USE IN STRUCTURAL ENGINEERING PRACTICE
Shaghayegh Karimzadeh, Ayşegül Askan, Ahmet Yakut
11:30-13:00  MAT 1- DESIGN AND FRESH STATE PROPERTIES / VYCH3
Chair: Hulusi Özkul

DEVELOPMENT OF COST EFFECTIVE DEFLECTION HARDENING CEMENTITIOUS COMPOSITES HTPP ECC
Eren Gödek, Muhammer Keskinates, Kamile Tosun-Felekoğlu, Burak Felekoğlu

THE HYDRATION PROPERTIES OF NANOSILICA POLYMER - PORTLAND CEMENT COMPOSITES
Niloufar Zabihi, M. Hulusi Özkul, Nazmiye Parlak, Barış Özer

HIGH PERFORMANCE FIBER REINFORCED CONCRETE FOR PAVEMENTS
Emin Şengün, Burhan Alam, İ.Özgur Yaman

LOW – FINE – SELF - COMPACTING CONCRETE DESIGN BY MEANS OF NANO SiO2 ADDITION
Muhammed Yasin Durgun, Hakan Nuri Atahan

MONITORING FRESH STATE BEHAVIOR OF FIBER REINFORCED CEMENTITIOUS COMPOSITES (FRCCS) A NON DESTRUCTIVE NON INTRUSIVE AND FULL FIELD IMAGE BASED TECHNIQUE
İrem Şanal, Nilüfer Özyurt, Ardalan Hosseini

RHEOLOGICAL PROPERTIES OF LIME - BASED GROUTS UTILIZED FOR MASONRY CONSOLIDATION
Didem Oktay, Nabi Yüzer

INVESTIGATION OF EARLY AND LATER PROPERTIES OF MORTARS WITH PC AND GGBFS UP TO HIGH VOLUME OF GGBFS
İsmail Hakki Çağatay, Edibe Özdemir

11:30-13:00  GEO 1- SOIL DYNAMICS AND GEOTECHNICAL EARTHQUAKE ENGINEERING / VYCH4
Chair: Kemal Önder Çetin

COMPARISON OF SITE RESPONSE OF UNIMPROVED AND IMPROVED SOIL USING DEEPSOIL
Ayşe Edinçliler, Murat Çalışkoglu

INVESTIGATION ON LOCAL SPECTRUM INVESTIGATION AND ITS EFFECTS ON EARTHQUAKE BEHAVIOR OF EXISTING RC STRUCTURES
Y. Bülent Sönmez, S. Oğuzhan Akbaş, Selçuk Baş, İlker Kalkan
DILATANCY AND ITS EFFECTS ON LIQUEFACTION SUSCEPTIBILITY
Şebnem Boduroğlu, Özer Çinicioğlu

NEAR - FIELD AND FAR - FIELD CHARACTERIZATION OF TRAFFIC INDUCED SEISMIC NOISE
S. Ümit Dikmen, Ali Pınar, Hakan Alçık

EVALUATION OF SITE AMPLIFICATION VALUES AT DOWNHOLE ARRAYS IN ISTANBUL
S. Ümit Dikmen, Gülüm Tanırcan

SITE RESPONSE ANALYSIS WITH ALTERNATIVE METHODS A CASE STUDY IN WESTERN TURKEY
Fatma Nurten Şişman, Ayşegül Askan

SPT BASED SEISMIC SOIL LIQUEFACTION TRIGGERING ASSESSMENT
Makbule Ilgac, Kemal Önder Çetin

A COMPARISON BETWEEN MAXIMUM SHEAR STRAIN DISTRIBUTION IN A UNIFORMLY ELASTIC HALF LAYER AND THAT IN A LAYERED VISCOELASTIC MEDIUM DUE TO THE SAME FREE - FIELD MOTION
Kaveh Dehghanian, Mustafa Tolga Yılmaz

11:30-13:00 HYD 1- FLOOD CONTROL / VYCH5
Chair: Ömer Yüksek

AN EXTENDED KUNDU - ECKHAUS EQUATION FOR MODELING THE DYNAMICS OF ROGUE WAVES IN A CHAOTIC WAVE - CURRENT FIELD
Cihan Bayındır

FORMATION OF THREE DIMENSIONAL EDDIES AND THE FLOW STRUCTURE AT THE JUNCTION OF THE STRAIT OF ISTANBUL WITH THE GOLDEN HORN
Mohammadsadegh Aslani, Emre. N. Otay

3D NUMERICAL SIMULATION OF WATER WAVES GENERATED BY LANDSLIDES INTO DAM RESERVOIRS
Vafa Khoosoli, Sedat Kabdağlı

ADVANCES IN HYDROPOWER PRODUCTION: MARINE ENERGY CONVERSION
Abdullah Muratoğlu, Mehmet İlshak Yüce
MODELING URBANIZATION USING THE SLEUTH URBAN GROWTH MODEL: THE CASE OF ISTANBUL TURKEY.  
Tewodros Assefa Nigussie, Abdusselam Altunkaynak

THE SURFACE WATER QUALITY MONITORING AND ASSESSMENT OF THE EASTERN BLACK SEA BASIN (TRABZON PROVINCE) STREAMS TURKEY  
Sinan Nacar, Adem Bayram, Uğur Satılmış, Osman Tuğrul Baki

PERFORMANCE BASED APPROACH FOR EVALUATING THE PERFORMANCE OF THE URBAN DRAINAGE SYSTEM OF ALGIERS  
Marzouk Cherrared, Mohamed Ben Bachır

13:00-14:00 LUNCH

14:00-15:30 STR 2- STRUCTURAL EARTHQUAKE ENGINEERING I / VYCH1  
Chairs: Erhan Karaesmen, Cem Yalçın

NEW APPROACHES ABOUT THE DAMAGE ESTIMATION OF REINFORCED CONCRETE BUILDINGS AFTER EARTHQUAKE: DETECTING THE DAMAGE OF COLUMNS WITH IMAGE ANALYSIS  
Gamze Doğan, Musa Hakan Arslan, Ömer Kaan Baykan

DYNAMIC RESPONSE OF RC FRAMES SUBJECTED TO SCALED EARTHQUAKE RECORDS COMPATIBLE WITH DIFFERENT DESIGN ACCELERATION SPECTRA  
Onur Merter, Taner Uçar

EFFECT OF PARTIAL OPENINGS IN INFILL WALL TO NONLINEAR BEHAVIOR OF REINFORCED CONCRETE FRAMES  
Onur Öztürkoğlu, Taner Uçar, Yusuf Yeşilce

SEISMIC BEHAVIOR OF REINFORCED COLUMNS STRENGTHENED BY STEEL PLATES  
Mehmet Sefa Orak, Zekai Celep

EVALUATION OF EXISTING REINFORCED CONCRETE BUILDINGS BEFORE AND AFTER SEISMIC RETROFITTING  
Burak Yön, M.Emin Öncü, Yusuf Calayır

PERFORMANCE EVALUATION OF MASONRY STRUCTURES WITH AND WITHOUT GIRDER  
Onur Onat, Burak Yön, E. Sayın
BEHAVIOUR OF THE COMPOSITE COLUMN - BEAM CONNECTION UNDER CYCLIC LOADING
Mohammad Manzoor Nasery, Metin Hüsem

14:00-15:30  STR 10- NUMERICAL MODELS IN STRUCTURAL ENGINEERING / VYCH2
Chairs: A. Necmettin Gündüz, Sami And Kılıç

TOTAL POTENTIAL ENERGY MINIMIZATION METHOD CONSIDERING MATERIAL NONLINEARITY
Rasim Temür, Gebrail Bekdaş, Yusuf Cengiz Toklu

A STUDY ON ESTIMATION OF FLEXURAL OVERSTRENGTH FACTOR FOR THIN WALLED CHS BEAMS USING ANFIS
Kasım Mermerdaş, Esra Mete Güneyisi

NONLINEAR FINITE ELEMENT ANALYSIS OF COLD - FORMED STEEL PLAIN CHANNEL COLUMNS
Mustafa Durmaz, Ayşe Daloğlu

THREE DIMENSIONAL FRAME ELEMENT FORMULATION FOR NONLINEAR ANALYSIS OF SEMI RIGID STEEL FRAMED STRUCTURES
Halil Fırat Özel, Afşin Sarıtaş, Zafer Karakaş

FORMULATION AND PRESENTATION OF MODELING BASED ON THREE - NODE BEAM ELEMENT AND FOUR - NODE
Nacereddine Alioua, Said Drizi, Mohamed Bénali Benmansour, Belaid Debit, Omar Bouazzouni

AN EXACT BEAM FINITE ELEMENT BASED ON A NEW POLYNOMIAL SHEAR FUNCTION
Hamza Guenfoud, Hassina Ziou, Mohamed Himeur, Mohamed Guenfoud

EFFICIENCY OF THE NUMERICAL MODELS ON DETERMINATION OF BEHAVIOUR OF BRICK INFILLED RC FRAMES
Mehmet Ömer Timurağaoğlu, Adem Doğangün, Ramazan Livaoğlu

14:00-15:30  MAT 2- MECHANICAL PROPERTIES AND MEASUREMENT / VYCH3
Chair: Turan Özturan

DETERMINATION OF THE TENSILE STRENGTH OF DIFFERENT FIBER REINFORCED CONCRETE MIXTURES
Mehmet Kemal Ardoğa, Emin Şengün, Burhan Alam, İsmail Özgür Yaman
EFFECTS OF FIBER VOLUME AND CURING CONDITION ON THE MECHANICAL PROPERTIES OF REACTIVE POWDER CONCRETE
Çağlar Yalçınkaya, Reza Jahangiri, Houtan Vahedi, H. Murat Tanarsalan

AN ALTERNATIVE TO CONVENTIONAL MEASUREMENT TECHNIQUES FOR EVALUATING CRACK PROPAGATIONS AND CRACK WIDTH OPENINGS
İrem Şanal, Ardalan Hosseini, Ardalan Hosseini, Nilufer Ozyurt

INVESTIGATION OF MECHANICAL PROPERTIES OF GEOPOLYMER COMPOSITE MATERIAL PRODUCED WITH BAYBURT STONE CONTAINED CLINOPTILOLITE
Nurullah Öksüzer, İlker Tekin

THE EFFECT OF POTASSIUM HUMATE BASED CHEMICAL ADMIXTURES ON THE COMPRESSIVE STRENGTH OF CONCRETE PRODUCED BY CLAY-BEARING AGGREGATES WITH HIGH METHYLENE BLUE VALUE
Kadir Kılınç, Saadet Gökçe Gök

A STUDY ON THE PROPERTIES OF CEMENT / CARBON NANOTUBE COMPOSITES
Gamze Erzengin, Mohammed Ibrahim, Emre Sancak, V. Özdemir

14:00-15:30 GEO 2- TESTING AND MODELLING IN GEOTECHNICS / VYCH4
Chair: Özer Çinicioğlu

NUMERICAL ANALYSIS OF PAVEMENT STRUCTURE ON EXPANSIVE SOIL STABILIZED BY SURCHARGE PRESSURE: CASE OF STUDY TEBESSA CITY (NORTH - EAST OF ALGERIA)
Adel Djellali, Abdelkader Houam, Ali Hamdane, Zied Benghazi

THE EFFECT OF VERTICAL LOADING ON STATIC CYCLIC HORIZONTAL LOADING OF A CAPPED PILE IN MODEL SAND GROUND
Yeşim Sema Ünsever, Tatsunori Matsumoto, M.Yener Özkan

STUDYING THE SOIL - STRUCTURE INTERACTION BY JOINT DECONVOLUTION: THE ATAKÖY (ISTANBUL TURKEY) VERTICAL ARRAY
Bojana Petrovic, Ümit Dikmen, Stefano Parolai, Erdal Şafak

AN EXPERIMENTAL STUDY FOR UPLIFT CAPACITY OF ANCHOR PLATES EMBEDDED IN SANDY SOIL
Talha Sarıcı, Bahadır Ok, Ahmet Demir, Mahmut Eroğlu
TREATMENT OF THE HIGH NUMBER OF CYCLES BY EQUIVALENT VISCOPLASTIC MODEL
Dob Hanane, Messast Salah, Djessas Imed, Boulon Marc, Flavigny Etienne

THE EFFECT OF REUSING OF SAMPLE IN THE COMPACTION TEST
İbrahim Yiğit

FUNDAMENTAL SOLUTION OF ANISOTROPIC FLUID SATURATED POROUS FULL SPACE DUE TO FLUID POINT SOURCE
Kiyumars Sahebkar, Morteza Easkandari-Ghadi

14:00-15:30 TR 1- TRANSPORTATION ENGINEERING I / VYCH5
Chairs: A. Hilmi Lav, Gökmen Ergün

BICYCLE FRIENDLY INTER-CAMPUS TRANSPORTATION: A CASE STUDY OF BOGAZICI UNIVERSITY
İlgın Gökaşar, Murat Bayrak

MODELLING THE PEDESTRIAN CROSSING SPEED USING ARTIFICIAL NEURAL NETWORKS
Selim Dündar

COMPARING OF ACCIDENT RATE AND INVOLVEMENT RATIO METHODS IN ORDER TO REALISTIC IDENTIFICATION OF CRITICAL ACCIDENT PARAMETERS
Kamran Rahimof, Rashid Modares Gorji, Sajad Rezaei, Mohammad Worya Khordehbinan

A REVIEW OF TRAFFIC APLICATIONS ON URBAN MOBILITY
İlgın Gökaşar, Gözde Bakioğlu

MODELING THE EFFECT OF INCREASING PROPORTION OF HEAVY VEHICLES IN REDUCTION TRAFFIC FLOW SPEED IN IRAN HIGHWAYS
Sajad Rezaei, Hadi Karbkshsh-Ravry, Ramin Mahmoodi Totonchi, MohammadWorya Khordehbinan

IDENTIFICATION OF TEMPORAL VARIATIONS IN SPEED PATTERNS FOR URBAN ARTERIALS USING FLOATING CAR DATA (FCD)
Oruç Altintaş, Hediye Tüydeş-Yaman, Kağan Tuncay

15:30-16:00 COFFEE BREAK
16:00-17:30  STR 3- STRUCTURAL EARTHQUAKE ENGINEERING II / VYCH1
Chair: Ufuk Yazgan

THE EXPERIMENTAL INVESTIGATION OF L SHAPED RC SHEAR WALLS
Mehmet Hasnalbant, Cemal Eyyubov

NON LINEAR BEHAVIOUR MODELLING OF THE REINFORCED CONCRETE STRUCTURES BY MULTI LAYERS BEAMS ELEMENTS
Mourad Khebizi, Hamza Guenfoud, Mohamed Guenfoud

PERFORMANCE COMPARISON OF TWO RETROFIT SHEAR WALL FORMS, COMPLETE AND PARTIAL FILL OF RC FRAME GAPS
Fuat Aras

BEHAVIOUR OF THE REINFORCED CONCRETE COUPLED WALL SYSTEMS AND WALL BOUNDARY ELEMENTS
Hasan Sesli, Süleyman İstemihan Coşgun, Metin Hüsem, Serhat Demir

SEISMIC BEHAVIOR DEPENDENCE ON GEOMETRICAL CHARACTERISTICS OF COOLING TOWERS ON ELASTIC FOUNDATION
Ali İhsan Karakaş, Ayşe Daloğlu, Korhan Özgan

SEISMIC BEHAVIOR OF SHORT CORE BUCKLING RESTRAINED BRACES
Nader Hoveidae

ON SEISMIC DESIGN OF CONNECTIONS OF REINFORCED CONCRETE SLABS TO REINFORCED CONCRETE STRUCTURAL WALLS
Mehmet Sefa Orak, Turgut Öztürk, Zekai Celep

16:00-17:30  STR 11- STRUCTURAL OPTIMIZATION & NUMERICAL METHODS / VYCH2
Chairs: Sami And Kılıç

SIZE OPTIMIZATION OF GRILLAGE STRUCTURES USING A SIMPLIFIED ANT COLONY OPTIMIZATION ALGORITHM
Zekeriya Aydın

METAHEURISTIC APPROACHES FOR OPTIMUM DESIGN OF CANTILEVER REINFORCED CONCRETE RETAINING WALL
Gebrail Bekdaş, Rasim Temür

OPTIMUM COST DESIGN OF RC COLUMNS USING BIG BANG BIG CRUNCH OPTIMIZATION ALGORITHM
Hasan Tahsin Öztürk
SIMULTANEOUS TOPOLOGY AND SIZING OPTIMIZATION OF TRUSSES WITH TWO DIFFERENT OPTIMIZATION ALGORITHMS
Ali Mortazavi, Vedat Togan, Ayse Daloğlu, Ayhan Nuhoğlu

OPTIMUM DESIGN OF REINFORCED CONCRETE COLUMNS EMPLOYING TEACHING LEARNING BASED OPTIMIZATION
Gebrail Bekdaş, Sinan Melih Nigdeli

A COMPARATIVE STUDY OF HARMONY SEARCH ALGORITHM AND GENETIC ALGORITHM ON THE OPTIMUM DESIGN OF STEEL SPACE FRAMES
Musa Artar, Ayşe T. Daloğlu

NUMERICAL ANALYSIS OF STRUCTURES WITH DIFFERENT SHAPES AND BEHAVIOUR BY FINITE ELEMENTS BASED ON THE STRAIN APPROACH
Hamadi Djamal, Maalem Toufik, Mellas Mekki

16:00-17:30  MAT 3- SUSTAINABILITY / VYCH3
Chairs: Mustafa Tokyay, Nabi Yüzer

STUDY OF THE INFLUENCE OF WASTE OF PLASTIC ON THE MECHANICAL BEHAVIOR OF MODIFIED BITUMINOUS CONCRETE
Noureddine Guessabi, Khedoudja Soudani, Samia Saoula, Smail Haddadi

ALKALI-ACTIVATION PERFORMANCE OF FLY ASHES FROM THERMAL POWER PLANTS UTILIZING GÜNEY EGE LIGNITE COAL RESERVE
S. Seyedian Choubi, Çağla Meral, M. Tangüler-Bayramtan

FEASIBILITY OF USING RECYCLED TIRE WIRES AS STEEL MICRO FIBERS TO PRODUCE AN AFFORDABLE AND ECO FRIENDLY UHPC
Jamshid Esmaeili, Jamil Kasaei

INFLUENCE OF RECYCLED ROOF TILE FINE AGGREGATES ON MECHANICAL PROPERTIES OF CEMENT MORTAR
Niyazi Özyağcı, Lütfullah Gündüz

IDENTIFICATION AND EVALUATION OF CO2 EMISSIONS OF VARIOUS CONCRETES PRODUCED IN DIFFERENT READY MIX CONCRETE PLANTS
İrem Şanal, Deniz Sarialioğlu, Volkan Pilgrı, Tahir Turgut, Yılmaz Akkaya

A STUDY ON THE USAGE OF DENIM WASTE AS REINFORCEMENT ELEMENT IN COMPOSITE MORTARS ON EXTERIOR BUILDING APPLICATIONS
Şevket Onur Kalkan, Lütfullah Gündüz
APPLICATION OF BIOGENIC CALCIUM CARBONATE PRECIPITATION IN DEVELOPING SELF HEALING CEMENT BASED MORTAR
Ali Amiri, Zeynep Başaran Bundur

COST-EFFICIENCY OF RAINWATER HARVESTING SYSTEM APPLICATIONS IN PUBLIC SCHOOLS OF TURKEY
Onur Dündar, İsmail Hakkı Özölçer

FLOODS IN ZONGULDAK CITY TURKEY
Gökçen Bombar, Ebru Eriş, Engin Ceyhan

REMEDIAL MEASURES FOR FLOOD PROBLEMS OF NICOSIA INDUSTRIAL AREA NORTH CYPRUS.
Hasan Zaifoglu, Bertuğ Akıntuğ

IMPACTS OF EXTREME PHASES OF NORTH ATLANTIC OSCILLATION ON STREAMFLOW IN WESTERN TURKEY
Ercan Kahya, Saeed Vazifehkhah, Hilal Erdem

FLOOD MONITORING OVER GAZIANTEP TURKEY USING TROPICAL RAINFALL MEASURING MISSION
Ahmet Emre Tekeli, Senayi Dönmez

SUSTAINABLE DRAINAGE SYSTEMS AS AN EFFECTIVE AND EFFICIENT FLOOD CONTROL MEASURE (A CASE STUDY OF LEFKOSA INDUSTRIAL ESTATE)
Kenechi Kurtis Onochie, İbrahim Bay

A COMPARATIVE STUDY ON THE CURRENT AND FUTURE DESIGN STORMS OVER RIZE PROVINCE TURKEY
Ercan Kahya, Ali Dnandeh Mehr, Olgay Şen, Alper Akçakay, Mehmet Özger

DISAGGREGATION STREAMFLOWS WITH PARAMETRIC APPROACH: A CASE STUDY OF KIZILIRMAK BASIN
Shatha Hazim Al-Zakar, Nermin Şarlık
16:00-17:30  **TR 2- TRANSPORTATION ENGINEERING II / VYCH5**

*Chair: Atakan Aksoy*

**INVESTIGATION OF LIFE CYCLE ASSESSMENT ON HOT MIX ASPHALT AND WARM MIX ASPHALT**

Hasan Bozkurt, Cenk Karakurt, Murat Karacasu

**GETTING ADVANTAGE OF GPS HANDLE DEVICE FOR CLUSTERING PAVEMENT DISTRESSES (LATITUDE LONGITUDE) TO FIND AND IDENTIFY TYPE AND SEVERITY OF DISTRESSES**

Soroush Dastgheibifard, Mehmet Kunt, Mohammad Amin Baftechi, Mahsa Asnafi, Hamed Rajabzadeh Gatabi

**FIRST STEP OF APPLICATION OF MECHANISTICAL EMPRICAL PAVEMENT DESIGN FOR TURKEY: PROCESSING OF CLIMATE DATA**

Hande Işık Özturk, Elif Kiran

**ANALYZING LITERATURE REVIEW OF TRANSPORTATION THROUGH GRADUATE THESES BETWEEN 1985 - 2015 IN TURKEY**

Mine Polat

**MAKKAH METRO SYSTEM AND CHALLENGES**

Mehmet Tarık Dündar, Zübeyde Özturk

**MODELING BURSA LRT SYSTEM AS METROBUS A CAPACITY ANALYSIS**

Mehmet Rizelioğlu, Turan Arslan

18:00-21:00  **WELCOME COCKTAIL**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30-10:15</td>
<td>KEYNOTE SPEECH- ALBERT LONG HALL</td>
<td>SİBEL PAMUKCU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chair: Özer Çinicioglu</td>
</tr>
<tr>
<td>10:15-11:00</td>
<td>KEYNOTE SPEECH- ALBERT LONG HALL</td>
<td>MURAT SAATÇIOĞLU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chair: Cem Yalçın</td>
</tr>
<tr>
<td>11:00-11:30</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
</tbody>
</table>

**11:30-13:00 STR 4- HISTORICAL STRUCTURES / VYCH1**

- **NONLINEAR ANALYSIS OF MASONRY WALLS BY USING A NOVEL MACRO MODELLING TECHNIQUES**
  Muhammet Karaton, H. Nurben Asan

- **EVALUATION OF STRENGTHENING OPTIONS FOR VERTICALLY IRREGULAR CONFINED MASONRY BUILDINGS**
  Anila Xhahysa, Serkan Mısır, Serap Kahraman

- **DYNAMIC ANALYSIS OF HISTORICAL TOWERS EXAMPLE OF YOZGAT CLOCK TOWER**
  Hüseyin Okan Anadut, D. Mehmet Özcan

- **DYNAMIC CHARACTERISTICS AND SEISMIC SAFETY OF HISTORICAL MINARETS OF THE YEŞIL MOSQUE**
  Cavit Serhatoğlu, Ramazan Livaoglu

- **CULTURAL HERITAGE RC STRUCTURES STRENGTHENED BY TIES UNDER MULTIPLE EARTHQUAKES**
  Angelos Liolios, Antonia Moropoulou

- **EVALUATION OF THE STRUCTURAL DAMAGES OF THE FOUR LEGGED MINARET**
  Murat Arda Uğurlu, Abdulhalim Karasın

- **INFLUENCE OF BLAST INDUCED GROUND MOTION ON DYNAMIC RESPONSE OF MASONRY MINARET OF YÖRGÜÇ PAŞA MOSQUE**
  Olgun Köksal, Kemal Haciefendioğlu, Emre Alpaslan, Fahri Birinci
12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING
ACE 2016
21 - 23 September 2016
Boğaziçi University, Istanbul / Turkey

PUSHOVER ANALYSIS OF HISTORICAL ELTIHATUN MOSQUE
Lorenzo Mangia, Bahman Ghisassi, Erkut Sayın, Onur Onat, Paulo B. Lourenço

LASER SCANNING, COMPUTATIONAL MODELING AND SEISMIC ANALYSIS OF THE HISTORICAL CAMPANILE IN BERKELEY, CALIFORNIA

11:30-13:00 STR 12- STRUCTURAL FIRE SAFETY / VYCH2
Chair: Gülay Altay

THERMO-MECHANICAL BEHAVIOR OF FOR STEEL BEAM CONCRETE SLAB COMPOSITE FLOORS
Taygun Fırat Yolacan, Serdar Selamet

PARAMETRIC STUDY OF FIRE PERFORMANCES OF REINFORCED CONCRETE BEAMS AND COLUMNS
Oğuz Burnaz, Ahmet Durmuş

STRUCTURAL BEHAVIOUR OF CONCRETE FILLED HOLLOW STEEL SECTIONS EXPOSED TO PARAMETRIC FIRE
Dimia Mohamed Salah, M. Baghdadî

THERMAL BEHAVIOR MODELING OF COMPOSITE BRIDGES
Erdem Yaman, Nildem Tayşi

AN ANALYTICAL APPROACH FOR PREDICTING EXPANSION OF INTUMESCENT COATING WITH DIFFERENT HEATING CONDITIONS
Burak Kaan Çırpıcı, Yong Wang, Benedict D. Rogers

11:30-13:00 MAT 4- DURABILITY / VYCH3
Chairs: Kambiz Ramyar, Sinan Turhan Erdoğan

EFFECT OF BINARY AND TERNARY BLENDS OF SILICA FUME AND METAKAOLIN ON THE MITIGATION OF ALKALI SILICA REACTION IN CONCRETE
Şakir Erdoğdu, Safa Nayır, Memduh Nas, Ufuk Kandil

FREEZE THAW RESISTANCE OF CONCRETE INCORPORATING FINE RECYCLED CONCRETE AND GLASS AGGREGATES
Ali Mardani-Aghabaglou, Murat Tuyan, Kambiz Ramyar

TRANSPORT PROPERTIES OF LIGHTWEIGHT AND NORMALWEIGHT CONCRETES OF SIMILAR COMpressive STRENGTH
Hatrice Öznur Öz, Diler Sabah Asaad, Erhan Güneyisi, Mehmet Gesoğlu
RHEOLOGICAL PROPERTIES AND AUTOGENOUS SHRINKAGE OF PASTE PHASE OF UHPC: INFLUENCE OF WATER TO CEMENT RATIO
Çağlar Yalçınkaya, Halit Yazıcı

CHLORIDE INDUCED CORROSION AND BOND PERFORMANCE OF SINGLE STEEL FIBER EMBEDDED IN CEMENT BASED COMPOSITES
Ahsanollah Beglarigale, F. Ghajeri, H. Yiğiter, Halit Yazıcı, H. Aytaç, H.L. Sevin

PERMEABILITY CHAR. OF CONCRETE WITH DIFFERENT WATER/BINDER RATIO AND BINDER TYPE EXPOSED TO REAL MARINE ENVIRONMENT
Ahsanollah Beglarigale, Halit Yazıcı

RECYCLED FILLERS EFFECT ON SELF COMPACTING CONCRETE DURABILITY
Abdelaziz Benmarce, Mehdi Benzaid

THE EFFECTS OF BLAST FURNACE SLAG ON CONCRETE HYDRATION HEAT AND CHLORIDE DIFFUSION
Fulya Gülen, Çağrı Sunaoğlu, Erman Derin, Ali Osman Atahan

11:30-13:00 GEO 3- SOIL BEHAVIOR AND SOIL IMPROVEMENT I / VYCH4
Chair: Gökhan Baykal, Özer Çinioğlu

MODELLING OF THE SOIL-STRUCTURE INTERFACE BEHAVIOR BY DIRECT SHEAR TESTS UNDER MONOTONOUS LOADING
Naoui Tallah, Mohamed Khemissa

IMPROVEMENT OF AN EXPANSIVE SOIL WITH HYDRATED LIME
İnci Ünver, M. Ayşen Lav, Erdal Çokca

TREATMENT OF DREDGED SEDIMENT OF SOUMMAM RIVER IN THE REGION OF BEJAIA AT NORTHERN ALGERIA.
Brahim Banouné, Bachir Melbouci

SOIL DENSIFICATION EFFECT ON THE BEHAVIOR OF CHLEF SAND (ALGERIA) UNDER STATIC AND CYCLIC LOADING IN DRAINED AND UNDRAINED CONDITIONS
Zohra Boutaraa, Ahmed Arab

EFFECTS OF FIBER - REINFORCEMENT ON LIQUEFACTION BEHAVIOR AND PORE PRESSURE DEVELOPMENT OF SAND
Tuğba Eskişar, Eyyüb Karakan, Selim Altun
NUMERICAL INVESTIGATION OF IMPROVED SOFT SOIL BY FLOATING STONE COLUMNS BEHAVIOR UNDER SEISMIC LOADS
Mustafa Vekli, Ferhat Şahinkaya, Cenk Cuma Çadir

IMPROVEMENT OF EXPANSIVE SOILS BY VARIOUS PRODUCTS FOR THEIR USE IN PAVEMENT SUBGRADES
M. Mellas, A. Hamdane, A. Mebrouki, A. Djellali

11:30-13:00 CM1- CONSTRUCTION INFORMATION TECHNOLOGY / VYCH5
Chair: Beliz Özorhon Orakçal

CONSTRUCTION MANAGEMENT DATA WAREHOUSE IMPLEMENTATION FOR TECHNICAL WORKS IN A MUNICIPALITY
Ömer Giran, Murat Anbarci, Osman Hürol Türkakın

ENTERPRISE RESOURCE PLANNING IMPLEMENTATION: A REVIEW IN CONSTRUCTION FIELD
Xhensila Thomollari, Vedat Toğan

TOWARDS DEVELOPING BUILDING INFORMATION MODELING (BIM) GUIDE AND EXECUTION PLAN TEMPLATE FOR TURKISH CONSTRUCTION SECTOR
Saniye Oktem, Esin Ergen Pehlevan

DETERMINING LEVEL OF DEVELOPMENT (LOD) FOR BUILDING INFORMATION MODELING
Esin Ergen, Raif Alshorafa

THE IMPACT OF USER BEHAVIOR ON ENERGY CONSUMPTION - A CASE STUDY OF KILYOS SARITEPE CAMPUS DORMITORY
Gökhan Kazar, Semra Çomu

CONSTRUCTION RE-EVALUATION THROUGH APPLICATION OF NEW TECHNOLOGIES TO ACHIEVE MORE SUSTAINABLE BUILDINGS
Alireza Rezaei

ALTERNATIVE COMPARISON FOR ESTIMATING AND PRE-CONSTRUCTION ANALYSIS USING GEOMETRY- INTEGRATED PLANNING AND SIMULATION
Gülşüm Sevde Baltaşı, Ragıp Akbaş

13:00-14:00 LUNCH
14:00-15:30  STR 5- STRUCTURAL EARTHQUAKE ENGINEERING III / VYCH1

INVESTIGATION ON SOFT STOREY IRREGULARITY IN TURKISH EARTHQUAKE CODE 2007
İsmail Hakkı Çağatay

INVESTIGATION OF DYNAMIC BEHAVIORS OF STRUCTURES HAVING VERTICAL IRREGULARITIES ACCORDING TO EARTHQUAKE ZONES AND SOIL CLASSES
Cansu Ergin, D. Mehmet Özcan

GLOBAL AND INTERSTORY DRIFT RATIO DEMANDS OF RC FRAMES OBTAINED USING GROUND MOTION RECORD SETS COMPATIBLE WITH TURKISH EARTHQUAKE CODE
Ali Haydar Kayhan, Ahmet Demir

ANALYSING THE FLEXURAL BEHAVIOR OF GFRP REINFORCED CONCRETE BEAMS WITH FINITE ELEMENT METHOD
Eda Avanoğlu Sicacık, Saruhan Kartal

EVALUATION OF CHANGING BUILDING CHARACTERISTICS IN TURKEY
Bekir Özer Ay, Tuba Eroğlu Azak, Murat Altuğ Erberik

MECHANICAL PROPERTIES OF THE PARTITION WALLS IN TYPICAL RESIDENTIAL BUILDINGS LOCATED IN ISTANBUL
Fuat Aras, Erdem Koç

HOW CAN MASONRY PANEL AFFECT THE SEISMIC PERFORMANCE OF INFILLED FRAMES STRUCTURES
Abla Chertout, Nabil Djebbar

INFLUENCE OF INFILL WALL SYSTEM ON SEISMIC BEHAVIOR OF RC FRAMES
İ. Ozan Demirel, Ahmet Yakut, Barış Binici

14:00-15:30  STR 13- STEEL STRUCTURES / VYCH2

EXPERIMENTAL RESEARCH ON DIFFERENT CONFIGURATIONS OF COLD-FORMED STEEL SHEAR PANELS
Burak Karabulut, Serdar Soyöz, Gülay Altay, Barlas Ö. Çağlayan
BUCKLING RESTRAIN BRACES WITH NEW CASING SYSTEM
Ramazan Özçelik, Yağmur Dikicişık, Kazım Burç Civelek

RESPONSE OF BUCKLING RESTRAINED BRACED FRAMES WITH DIFFERENT YIELD STRENGTH AND YIELDING LENGTH
Mehmet Bakır Bozkurt, Yasin Onuralp Özkılic, Cem Topkaya

EFFECTS OF NON-UNIFORM TEMPERATURE DISTRIBUTION ON CRITICAL MEMBER TEMPERATURE OF STEEL TUBULAR TRUSS
Emre Özyurt, Yong Wang

ANALYSIS AND DESIGN OF BURIED STEEL PIPES AT FAULT CROSSINGS
Ercan Şerif Kaya, Eren Uçkan, Ferit Çakır, Bilge Siyahi, Bülent Akbaş

NUMERICAL INVESTIGATION OF STEEL TUBULAR K-JOINT UNDER IMPACT LOADING
Süleyman İstemihan Coşgun, Metin Hüsem, Serhat Demir, Hasan Sesli

EFFECT OF LONGITUDINAL STIFFENERS ON THE FLANGES TO IMPROVE THE LOW CYCLE FATIGUE PERFORMANCE OF STEEL - H PILES
Memduh Karalar, Murat Dicleli

BEHAVIOR OF SEMI-RIGID CONNECTION AND POST-NORTHRIDGE CONNECTION WITH MODIFIED BEAM WEB
Sepanta Naimi, Ayşe Elif Özoysu Özbay, Hasan Özkaynak

14:00-15:30 MAT 5- SELF COMPACTING CONCRETE / VYCH3
Chair: Nilüfer Özyurt Zihnioğlu

EFFECT OF CURING CONDITION ON THE MECHANICAL PROPERTIES OF SELF COMPACTING METAKAOLIN BLEND CONCRETE
Çağla Senel, Onur Özturk, Burcu Akçay

SOME PROPERTIES OF SELF CONSOLIDATING CONCRETE PRODUCED BY RECYCLED CONCRETE AGGREGATES
Houssein Ghandour, Özgür Eren, Rouda El Dalati

FRESH CHARACTERISTICS OF TIRE CHIPS MODIFIED SELF-COMPACTING CONCRETE
Erhan Güneyisi, Mehmet Gesoğlu, Nahla Najj, Süleyman İpek

FRESH STATE PROPERTIES OF STEEL FIBER REINFORCED SELF-COMPACTING CONCRETE WITH VARIOUS FIBER VOLUMES
Anıl Niş, Nilufer Özyurt, Turan Özturan
EFFECTS OF THIXOTROPY FORMWORK TYPE AND RELEASE AGENT ON SELF CONSOLIDATING CONCRETE SURFACE DEFECTS
Hasan Yavuz Ersöz, T. Kemal Erdem, Ali Topal, Şevket Gümüştekin, Saleh Ahari, Murat Tuyan

INFLUENCE OF SHRINKAGE REDUCING ADMIXTURES ON THE MECHANICAL PROPERTIES OF SELF-COMPACTING CONCRETE
İlker Kalkan, İlhami Demir, Şule Bakırcı Er, Özer Sevim

14:00-15:30 GEO 4- DESIGN OF GEOTECHNICAL STRUCTURES I / VYCH4
Chair: Kubilay Keleşoğlu

NUMERICAL STUDY OF IMPROVING SEISMIC PERFORMANCE OF QUAY WALLS
Ayşe Edinçlıler, Yasin Sait Toksoy

STUDY OF THE EFFECTIVENESS OF WATERPROOF BARRIERS AGAINST THE RISK OF INFILTRATION OF SLUDGE PRESSINGS IN LANDFILLS
Amar Guettouche, Farid Kaoua

PERFORMANCE BASED ASSESSMENT OF RAMMED AGGREGATE PIERS
Kemal Önder Çetin, Ece Kurt Bal, Lale Öner

NUMERICAL INVESTIGATION OF THE UPLIFT RESISTANCE OF PLATE STRIP ANCHORS IN SAND
Mustafa Tolun, Buse Emirler, Mustafa Laman

MUNICIPAL WASTE LANDFILL DESIGN FROM COAL BOILER BOTTOM ASH, FLY ASH AND GEOSYNTHETHICS- QUALITY ASSESSMENT ON RESTORATIONS
Y. İsmail Tosun

14:00-15:30 CM 2- OPTIMIZATION / VYCH5
Chairs: Murat Kuruoğlu, Semra Çomu

EVALUATION OF DESIGN ALTERNATIVES AND DETERMINATION OF BEST DESIGN BASED ON LIFECYCLE COSTING IN AN IRRIGATION PROJECT
Önder Ökmen

A COMPARATIVE RETURN ANALYSIS OF REAL ESTATE INVESTMENT TRUST (REIT) INDEX AND MAJOR INDEXES IN ISTANBUL STOCK EXCHANGE
Levent Sumer, Beliz Ozorhon Orakcal

SCHEDULE AND COST SENSITIVITY ANALYSIS FOR HOSPITAL PROJECT
Mehmet Sait Cülfik, Hasan Altun
TIME - COST TRADE - OFF OPTIMIZATION USING SIEMENS’S EFFECTIVE COST SLOPE METHOD
Mohammad Azim Eirgash, Vedat Toğan

COST EFFICIENT SUSTAINABLE CONSTRUCTION
Murat Geçim, Gökhan Demirdöğen, Hande Aladağ, Zeynep Işık

LEAN MANAGEMENT METHODS FOR DESIGN AND CONSTRUCTION: BUILT-IN-QUALITY AND SAFETY-BY-DESIGN
Sevilay Demirkesen, Iris Tommelein

FROM PRIVATE FINANCE INITIATIVE (PFI) TO PRIVATE FINANCE (PF2): MODERNISING PUBLIC PRIVATE PARTNERSHIPS IN THE UK
Rıfat Akbiyıklı

15:30-16:00  COFFEE BREAK

16:00-17:30  STR 6- DESIGN FOR EARTHQUAKE & WIND STRUCTURES / VYCH1
Chairs: Filiz Piroğlu, Serdar Selamet

TRAVELLING WAVE EFFECT TO THE STRESS PROPAGATION IN CABLE STAYED BRIDGES
Çağlayan Hızal, Gürsoy Turan

PSEUDO DYNAMIC TEST OF RC FRAME RETROFITTED WITH BUCKLING RESTRAINED BRACE
Ramazan Ozcelik, Elif Fıruze Erdil, Kazım Burç Civelek

A COMPARATIVE STUDY ON PUSHOVER RESPONSE OF MEGA BRACED RC FRAMES
Diyar Yousef Ali Al Biro, Esra Mete Güneyisi, Ayşegül Gültekin

A PARAMETRIC STUDY ON THE RESPONSES OF A HYPERBOLIC COOLING TOWER EXPERIENCING WIND LOADING WITH VARIOUS CIRCUMFERENTIAL DISTRIBUTIONS
Ali İhsan Karakaş, Ayşe Daloğlu, Korhan Özgan

WIND LOADS FOR STADIUM LIGHTING TOWERS ACCORDING TO EUROCODE1
Zeki Karaca, Hasan Tahsin Öztürk, Erdem Türkeli

COMPARISON OF WIND TUNNEL TESTING AND CFD NUMERICAL MODEL RESULTS FOR HIGH RISE BUILDINGS
Volkan Kiriççi, Ahmet Ozan Çelik, Kerem Peker
DESIGN OF RING BEAMS FOR DISCRETELY SUPPORTED CYLINDRICAL STEEL SILOS BASED ON EUROCODE 3 APPROACH
Özer Zeybek, Cem Topkaya

16:00-17:30  MECH 1- MECHANICS I / VYCH2
Chair: Serdar Soyöz

EXPERIMENTAL ANALYSIS OF LAMINATED GLASS BEAMS WITH DELAMINATION
Ebru Dural

THE STRAIN SENSITIVITY OF COPPER POWDER REINFORCED CONCRETE
Egemen Teomete, Özkan Kolatar, Erman Demircilioğlu, Serap Kahraman

THE STRAIN SENSITIVITY OF BRASS FIBER REINFORCED CONCRETE
Egemen Teomete, Erman Demircilioğlu, Serap Kahraman

COMPARISON OF DIFFERENT BEAM THEORIES IN FREE VIBRATION OF SIMPLE BEAMS
Özge Ersu, Oktay Demirdağ

ELASTOPLASTIC SOLUTION OF CIRCULAR PLATES THROUGH A TWO FIELD MIXED FINITE ELEMENT FORMULATION
Akif Kutlu, Mehmet Hakki Omurtag

DEVELOPING THREE-ELEMENT MODEL FOR QUASI-STATIC ANALYSIS OF VISCOELASTIC PLATES
Gülçin Tekin, Fethi Kadıoğlu

16:00-17:30  MAT 6- HIGH TEMPERATURE / VYCH3
Chair: Hakan Nuri Atahan

USING GLASS BEAD AND BLAST FURNACE SLAG IN CONCRETE TO REDUCE HIGH TEMPERATURE AFFECT
Erhan Burak Pancar, Zekî Karaca

THERMAL CONDUCTIVITY AND THERMAL DURABILITY OF GROUND PERLITE POROUS INSULATION BLOCKS
Murat Şahin, Sinan Turhan Erdoğan

CHANGES IN MICROSTRUCTURE AND RECOVERY OF CONCRETE INCORPORATING GRANULATED BLAST FURNACE SLAG AFTER HIGH TEMPERATURE EXPOSURE
Abdullah Huzeyfe Akça, Nilüfer Özyurt
THE EFFECT OF HIGH TEMPERATURE EXPOSURE ON THE BEHAVIOR OF SELF-COMPACTING CONCRETE (SCC)
Noura Djeibri, Zine EL Abidine Rahmouni, L. Belagraa

16:00-17:30 HYD 5- WATER MANAGEMENT / VYCH4
Chair: Atilla Akkoyunlu

INTEGRATED RIVER BASIN MANAGEMENT TO MAXIMIZE THE COMBINED BENEFIT FROM CASCADE HYDROPOWER PLANTS
Mumtaz Ak, Elçin Kentel, Secil Savasaneril

COMPARISON OF THE SWAT SIMULATIONS USING PRECIPITATION DATA FROM OBSERVATION AND CFSR ESTIMATIONS IN THE RIZE BASIN (TURKEY)
Ercan Kahya, Sead Ahmed Swalih

JOINT MODELLING OF DROUGHT DURATION AND SEVERITY SERIES USING COPULAS: A CASE STUDY OF THE EUHTRATES BASIN, TURKEY
Fatih Tosunoğlu, Christian Onof, İbrahim Can

COST EFFICIENCY OF RAINWATER HARVESTING SYSTEM APPLICATIONS IN PUBLIC SCHOOLS OF TURKEY
Onur Dundar, Özolçer İsmail Hakkı

FLOOD RISK MAPPING USING ECONOMIC ENVIRONMENTAL AND SOCIAL DIMENSIONS
Murat Yeğin, Elçin Kentel

16:00-17:30 TR 3- TRANSPORTATION ENGINEERING III / VYCH5
Chairs: Muhammed Vefa Akpınar, Hande Işık Öztürk

INVESTIGATION OF CONCRETE BARRIERS WITH RECYCLED RUBBER, ROOF TILE AND STEEL SLAG
Ali Kurar, Adem Eren, Lütfullah Gündüz, Niyazi Özyağcı

AN ATTEMPT SYNTHESISING BORON CONTAINING ADDITIVES FOR ASPHALT MODIFICATION
Bahadır Yılmaz, Şeref Oruç

ECONOMIC EVALUATION OF BALAST-LESS SYSTEMS WITH ASPHALT BEARING LAYER AND CONCRETE BEARING LAYER ON SAMPLE TRACK
Hüseyin Köse, Zübeyde Öztürk

REDUCING THERMAL CONDUCTIVITY OF CONCRETE PAVEMENT
Erhan Burak Pancar, Mehmet Siddik Eker, Zeki Karaca
OPTIMIZING THE ASPHALT AND THE HYDRATED LIME ADDITIVE CONTENT RATIOS OF MARSHALL MIXTURES USING ARTIFICIAL NEURAL NETWORKS
Sinan Yardım, Selim Dündar, Betül Değer Şitilbay

EVALUATION OF SURFACE ENERGY COMPONENTS OF UNMODIFIED AND MODIFIED ASPHALT BINDERS WITH SESSILE DROP METHOD
Mehmet Bayazit, Tuncay Cansever, Yüksel Taşdemir

19:00 - 22:00  GALA DINNER
23 SEPTEMBER 2016

09:30-10:15  KEYNOTE SPEECH- ALBERT LONG HALL
BURCU AKINCI
Chair: Beliz Özorhon Orakçal

10:15-11:00  KEYNOTE SPEECH- ALBERT LONG HALL
MUSTAFA ERDİK
Chair: Hilmi Luş

11:00 - 11:30  COFFEE BREAK

11:30-13:00  STR 7- REINFORCED CONCRETE I / VYCH1
Chair: Metin Aydoğan

UNIVERSAL SIZE EFFECT LAW AND EFFECT OF NOTCH DEPTH
Südik Şener, Kadir Can Şener

OVERLAPPING LATTICE MODELING FOR CONCRETE FRACTURING USING SEQUENTIALLY LINEAR ANALYSIS
Beyazıt Bestami Aydın, Kağan Tuncay, Barış Binici

CHARACTERIZATION OF MIXED MODE CRACK OPENING IN CONCRETE: INFLUENCE OF THE CRACK PLAN INCLINATION
Boulifa Ridha, Samai Mohamed Laid, Benhassine Mohamed Tayeb

NONLINEAR FINITE ELEMENT ANALYSIS OF COLD FORMED STEEL PLAIN ANGLE COLUMNS
Mustafa Durmaz, Ayşe Daloğlu

INVESTIGATION OF IMPACT EFFECT ON A REINFORCED CONCRETE SLAB
R. Tuğrul Erdem, Engin Güçüyen, Erkan Kantar

A COMPARATIVE STUDY OF SHEAR EFFECT ON RECTANGULAR PLATES WITH VARIOUS LOADING AND BOUNDARY CONDITIONS
Djamal Hamadi, Abdallah Zatar, Sifeddine Abderrahmani

NUMERICAL SIMULATION OF REINFORCED CONCRETE MEMBERS WITH REINFORCING BAR BUCKLING
Sadık Can Girgin, Ioannis Koutromanos, Mohammadreza Moharrami

EFFECT OF TIME STEP SIZE ON STRESS RELAXATION
Abdullah Fettahoğlu
11:30-13:00  STR 14- SYSTEM IDENTIFICATION & HEALTH MONITORING / VYCH2

Chairs: Necati Çatbaş, Hilmi Luş

MODAL PARAMETER IDENTIFICATION OF A CONTINUOUS BEAM BRIDGE BY USING GROUPED RESPONSE MEASUREMENTS
Hasan Ceylan, Gürsoy Turan

EXPERIMENTAL AND ANALYTICAL INVESTIGATIONS OF MASONRY RAILWAY ARCH BRIDGES
Seda Konor, Kasım A. Korkmaz, Kadir Özakgül, Mustafa Gençoğlu, Barlas Ö. Çağlayan

RAPID NON-CONTACT VISUAL SCANNING OF STRUCTURES USING INFRARED THERMOGRAPHY
Semih Gönen, Burak Tonga, F. Necati Catbaş

AMBIENT VIBRATION TESTS OF AN ARCH DAM MODEL UNDER DAMAGED AND STRENGTHENED CONDITIONS
Ahmet Can Altunışık, Murat Günaydın, Barış Sevim, Alemdar Bayraktar, Süleyman Adanur

FINITE ELEMENT MODEL UPDATING LIMITS FOR STRUCTURAL IDENTIFICATION
Murat Günaydın, Süleyman Adanur, Ahmet Can Altunışık, Alemdar Bayraktar, Barış Sevim

DEVELOPMENT OF NATIONAL MEASUREMENT SYSTEM FOR STRUCTURAL HEALTH MONITORING
Burak Akpınar, Koray Gürkan, Ahmet Anıl Dindar, Nedim Onur Aykut, Engin Gülal

11:30-13:00  MAT 7 - APPLICATIONS AND CASE STUDIES / VYCH3

Chairs: Özgür Eren, Çağla Meral

THE STRENGTHENING OF HISTORICAL MASONRY STRUCTURES: A CASE STUDY
Barış Sayın, Tarık S. Bozkurt, Barış Yıldızlar, Çemil Akçay

NEW EUROPEAN SEISMIC REGULATIONS FOR THE QUALIFICATION AND DESIGN OF POST-INSTALLED ANCHORING
Jorge Gramaxo, Onur Yücel, Mehmet Ural

THE CRUSHED ROCK AGGREGATE CHARACTERISTICS OF ÜZÜMLÜ (ERZINCAN) REGION VOLKANICS
Yavuz Selim Aksüt, Şükri Yetgin, Ahmet Çavdar
PHYSICAL AND MECHANICAL PROPERTIES OF TRAVERTINES UTILIZED FOR CONSTRUCTIONS: AN EXAMPLE FROM DENIZLI
Saffet Yağız

THE EFFECT OF TYPE OF HOOKED - END ON THE MECHANICAL PROPERTIES OF STEEL FIBER REINFORCED CONCRETES
Yunus Gündüz, Eyüp Taşkan, Yuşa Şahin

ROLLER COMPACTED CONCRETE APPLICATIONS IN TURKEY
Yasin Engin, İsmail Gökalp, Erdal Önkol, Hükümdar Ağac, Hakan Ekim

11:30-13:00 HYD 6 - HYDROLOGY & GROUND WATER / VYCH4
Chair: Cem B. Avcı

ASSESSMENT OF GROUNDWATER POTENTIAL IN THE CITY OF BATMAN BY USING GIS BASED MODELING AND MAPPING TECHNIQUES
Veysel Süleyman Yavuz, Recep Çelik, Nizammettin Hamidi

A CRITICAL POINT APPROACH FOR THE INTERPRETATION OF RECOVERY PUMP TEST DATA
A.Ufuk Şahin, Emin Çiftci

MAPPING OF GROUNDWATER POTENTIAL IN THE HARRAN ŞANLIURFA PLAIN BY USING GIS BASED ON GEOSTATISTICAL ANALYST.
Recep Çelik, Veysel Aslan

PUMPING TEST ANALYSIS IN HETEROGENEOUS LEAKY AQUIFERS
Cem B. Avcı, Osman S. Börekçi

A CASE STUDY FOR DETERMINATION OF HYDROLOGICAL PARAMETERS IN HEC - HMS IN COMPUTING DIRECT RUNOFF
Hüseyin Akay, Müsteyde Baduna Koçyiğit, Ali Melih Yanmaz

HOMOGENEITY ANALYSIS OF PRECIPITATION SERIES IN TURKEY
Ercan Kahya, Buğrayhan Biçkici Arikan, Esra Akdeniz Duran

THE INFLUENCE OF MADDEN - JULIAN OSCILLATION ON PRECIPITATION PATTERN IN TURKEY
Ercan Kahya, Hilal Erdem

HYDROLOGICAL ANALYSIS OF AN URBAN BASIN IN SUB TROPICAL ENVIRONMENT
Muhammet Ömer Diş, Emmanouil N. Anagnostou
11:30-13:00  GEO 5 - SOIL BEHAVIOR AND SOIL IMPROVEMENT II / VYCH5

Chairs: Ayfer Erken, İlknur Bozbey

BEHAVIOR OF STONE COLUMNS IN CLAYEY SAND SOILS - LABORATORY MODEL TESTS AND NUMERICAL COMPARISONS
M. Refik Kurtoğlu, Cem Akgüner

AN APPLICATION OF JET GROUTING METHOD FOR GROUND IMPROVEMENT
Zeki Karaca, Erdem Türkeli, Serkan Gül

DATE SEED ASH AS A SOIL STABILIZING MATERIAL
Reem Houssein, Zalihe Nalbantoğlu

ABOUT THE BEHAVIOUR OF A SWELLING CLAY OF THE REGION OF N’GAOUS (BATNA, IN ALGERİA)
Ferrah Ferrah, Dimia Mohamed Salah

13:00-14:00  LUNCH

14:00-15:30  STR 8- REINFORCED CONCRETE II / VYCH1

Chair: Uğur Ersoy

EFFECT OF METAL WASTE ON STRUCTURAL BEHAVIOR OF FERROCEMENT AND SCC ONE WAY RIBBED SLABS
Dr. Ashraf Alfeehan

THE EFFECT OF ANCHORAGE NUMBER IN THE STRENGTHENING OF REINFORCED CONCRETE BEAMS
Mustafa Kaya, Zeynel Çağdaş Kankal

EFFECT OF OPENINGS ON THE PUNCHING SHEAR BEHAVIOR OF SLAB–COLUMN CONNECTIONS WITH CFRP STRIPS
Cengizhan Durucan, Özkür Anıl

FLEXURAL BEHAVIOUR EFFECTS OF GFRP BARS IN REINFORCED CONCRETE BEAMS
Şule Bakırçı Er, Mehmet Yaz

EFFECT OF SUPPORT CONDITIONS ON BEHAVIOR OF REINFORCED CONCRETE SHORT BEAMS
Hakan Öztürk, Aydın Demir, Naci Çağlar

APPLICATION OF 2D DIGITAL IMAGE CORRELATION: THREE POINTS FLEXURE TEST OF REINFORCED CONCRETE BEAM
Utku Albostan, Özkür Kurç
14:00-15:30 STR 15- STRUCTURAL OPTIMIZATION & DESIGN / VYCH2
Chair: Gülten Gülay

SELECTION OF REGRESSION FUNCTION FOR INDIRECT TENSILE TEST RESULTS
Abdullah Fettahoglu

TEACHING LEARNING BASED OPTIMIZATION FOR PARAMETER ESTIMATION OF DOUBLE TUNED MASS DAMPERS
Sinan Melih Nigdeli, Gebrail Bekdaş

WEIGHT OPTIMIZATION OF STEEL SPACE FRAMES UNDER EARTHQUAKE EXCITATION USING META HEURISTIC TECHNIQUE AND SAP2000 OAPI
Musa Artar, Ayşe T. Daloğlu

OPTIMUM DESIGN OF RC CANTILEVER RETAINING WALL USING ARTIFICIAL BEE COLONY AND CUCKOO SEARCH ALGORITHMS
Hasan Tahsin Öztürk

INVESTIGATION OF THE EFFECT OF TEACHING FACTOR ON OPTIMIZATION PROCESS
Ali Mortazavi, Vedat Toğan, Ayse Daloğlu

DESIGN AND CONSTRUCTION PHASES OF ÜSKÜDAR STATION IN ÜSKÜDAR ÇEKMEKÖY METROLINE
Barış Özcan, Emre Duman, Utkan Çorbacıoğlu

FAILURE ANALYSIS OF GEDIK BULAK SCHOOL BUILDING DURING THE 2011 VAN EARTHQUAKES IN TURKEY
Bengi Atak, Özgür Avşar

THE EFFECT OF CONCRETE MODELS ON DYNAMIC ANALYSIS OF DEFICIENT RC STRUCTURES
Elif Fируze Erdil, Ramazan Özçelik
14:00-15:30  MAT 8- MODELLING / VYCH3
Chairs: Yılmaz Akkaya, Özkan Şengül

DETERMINATION OF INITIAL FRACTURE TOUGHNESS PARAMETER OF THE DOUBLE K MODEL BY ARTIFICIAL NEURAL NETWORKS
Ragip İnce, Cenk Fenerli

NUMERICAL MODELLING OF THE SPALLING PHENOMENON OF REINFORCED CONCRETE BEAM
Guergah Cherif, Dimia Mohamed Salah, Guenfoud Mohamed

ANALYTICAL SOLUTION FOR BENDING OF SYMMETRIC SANDWICH SQUARE PLATES (TI 6AL 4V ZRO2) UNDER THERMO MECHANICAL LOADS
Hayat Saıdı, El Abbes Adda.Bedia, Abdelouahed Tounsi

DEVELOPMENT OF A SIMPLIFIED MODEL FOR DRYING SHRINKAGE OF CONCRETE
Dalila Boucherit, Said Kenai

EVALUATION OF THE ACCURACY OF A NEW PROPOSED MODEL FOR DRYING SHRINKAGE OF CONCRETE CONTAINING SUPERPLASTICIZERS
Dalila Boucherit, Said Kenai

14:00-15:30  HYD 3- COMPUTATIONAL HYDRAULICS / VYCH4
Chair: Ekin Talia Tokyay Sinha

DAM BREAK ANALYSIS USING COMBINED 1D AND 2D HEC RAS MODEL
Ammar Ashraf, Zafer Bozkuş

NUMERICAL ANALYSES OF FLOW CHARACTERISTICS IN THE VICINITY OF SPILLWAY AERATORS
Can Kurt, Talia Tokyay

PREDICTING PEAK DISCHARGE DUE TO BREAK OF KAPLUKAYA DAM AND ASSESSING ITS EFFECTS
Akın Duvan, Osman Yıldız, Ersin Korkmaz

COMPUTER AIDED HYDRAULIC ANALYSIS AND DESIGN OF TYROLEAN INTAKES
Utku Özkaya, A. Melih Yanmaz

EFFECT OF DRAINAGE PROPERTIES ON SEEPAGE BEHAVIOR OF EARTH FILL DAMS
Melih Calamak, Ahsen Nur Bingol, A. Melih Yanmaz
MAXIMIZING THE TOTAL POWER IN A WATER RESOURCES SYSTEM
Onur Arslan

14:00-15:30 CM 3- CONTRACTUAL ISSUES / VYCH5
Chairs: Gül Polat, Vedat Toğan

PROFESSIONAL LIABILITY (FITNESS FOR PURPOSE AND REASONABLE SKILL OF CARE) IN FIDIC RED SILVER YELLOW BOOK 1999 AND GOLD BOOK 2008
Rıfat Akbıyıklı

SEISMIC PROTECTION OF THE CULTURAL HERITAGE IN TURKEY – REGULATORY ASPECTS
S. Bilgen Sungay, S. Ümit Dikmen

FACTORS AFFECTING DISPUTE RESOLUTIONS IN INTERNATIONAL JOINT VENTURES
Umut Barış İnce, Hande Aladağ, Gökhan Demirdöğen, Zeynep Işık

IMPACT OF PROJECT CHARACTERISTICS ON RISKS AND DISPUTES IN SUBCONTRACTOR CONTRACTS
Deniz İlter, Gökçe Bakioğlu

A COMPARATIVE ANALYSIS OF TIME CONSIDERATIONS IN AIA A201-2007 AND TURKISH GENERAL CONDITIONS FOR BUILDING CONSTRUCTION
Ruveyda Komurlu, David Arditi

READY - MIXED CONCRETE TRUCK DRIVERS: WORK RELATED HAZARDS AND STATISTICAL ANALYSIS OF ACCIDENTS
Özge Akboğa, Selim Baradan

DEVELOPING A COORDINATION SYSTEM FOR ENVIRONMENTAL SAFETY AROUND URBAN CONSTRUCTION (ESUC) SITES
Haluk Çeçen, Şenay Atabay, Nur Atakul

15:30-16:00 COFFEE BREAK
16:00-17:30  MECH 2 - MECHANICS II / VYCH2
Chair: Mehmet Omurtag

ENHANCED ULTIMATE STRENGTH PREDICTION OF CORNER REGIONS OF STAINLESS STEEL CROSS - SECTIONS BASED ON GENETIC PROGRAMMING
Abdulkadir Çevik, Ahmet Emin Kurtoğlu, Mehmet Eren Gülşan, İbrahim Halil Güzelbey

MIXED FINITE ELEMENT METHOD FOR ANALYSIS OF VISCOELASTIC PLATES
Gülçin Tekin, Fethi Kadıoğlu

BUCKLING ANALYSIS OF A BEAM ON ELASTIC FOUNDATION WITH COMPLETELY FREE BOUNDARY BY FOURIER SERIES
Mustafa Özgür Yaylı, Ali Erdem Çerçevik, Süheyla Yerel Kandemir

DYNAMIC RESPONSE ANALYSIS OF AXIALLY LOADED BEAMS ON TWO PARAMETER ELASTIC FOUNDATION
Çağlayan Hızal, Hikmet Hüseyin Çatal

VIBRATION ANALYSIS OF ELASTIC THIN BOTTOM PLATES OF RIGID FLUID STORAGE TANKS RESTING ON PASTERNAK FOUNDATION
Akif Kutlu, Bahadir Uğurlu, Mehmet Hakkı Omurtag

EXPONENTIALLY GRADED ELEMENTS FOR ANALYSIS OF VERTICAL MOVEMENTS OF RIGID RECTANGULAR FOUNDATIONS ON A TRANSVERSELY ISOTROPIC HALF SPACE
Morteza Eskandari-Ghadi, Ali Morshedifard

DYNAMIC STIFFNESS FORMULATION FOR FREE VIBRATIONS OF ELASTICALLY RESTRAINED BEAMS
Baran Bozyiğit, Yusuf Yeşilce

16:00-17:30  GEO 6 - DESIGN OF GEOTECHNICAL STRUCTURES II / VYCH3
Chair: Berrak Teymur

SHEARING MECHANISM OF THE SOIL-STRUCTURE INTERFACE BEHAVIOUR
Maroua Feligha, Farid Hammoud, Mohamed Salah Nouaouria, Mouloud Belachia

INVESTIGATING OF THE SHAFT CAPACITY OF SINGLE PILES IN DRY AND SATURATED SAND EXPERIMENTALLY
Murat Olgun, Yavuz Yenginar, Bekir Fidan

SKIN FRICTION BETWEEN SOIL AND PILE MATERIALS
Hüseyin Suha Aksoy, Esen İnal, Mesut Gör
CONDITION APPRAISAL AND MAINTENANCE PLANNING FOR SELECTED GEOTECHNICAL ASSETS ALONG A HIGHWAY
Ahmad Alkhouzei, Eriş Uygar, İbrahim Yitmen

UTILIZING ROCK BRITTLENESS FOR ESTIMATING TBM PENETRATION RATE IN ROCKS
Saffet Yağız

16:00-17:30 HYD 4- OPEN CHANNEL & PIPE FLOW / VYCH4
Chairs: Emre Otay, Umut Türker

ROUGHNESS AND DISCHARGE ESTIMATION IN OPEN CHANNELS BY FREE SURFACE VELOCITY MEASUREMENT
Siamak Gharahjeh, İsmail Aydın

TEMPORAL EVOLUTION OF SCOUR AND DEPOSITION DOWNSTREAM OF A SLUICE GATE
Hakan Avcı, Hüseyin Zümrut, Gökçen Bombar

NUMERICAL MODELING OF DRAFT TUBE, SETTLING CHAMBER AND TAIL WATER TUNNEL
Şahnaz Tiğrek, Tuğçe Yıldırım

DETERMINATION OF CRITICAL SUBMERGENCE AT HORIZONTAL WATER INTAKES UNDER SYMMETRICAL FLOW CONDITIONS
Mustafa Göğüş, Mete Köken, Cihan Zalooğlu, Emre Haspolat

NUMERICAL ANALYSIS OF FLOW AROUND A CIRCULAR BRIDGE PIER
Nazire Göksu Soydan, Oğuz Simsek, Veysel Gümüş, Mevlüt Sami Aköz

SIMULATION OF SLUG FLOW IN A HORIZONTAL PIPE
Ali Ersin Dincer, Zafer Bozkuş

PRESSURE LOSSES MEASUREMENTS CONSIDERING TEMPERATURE AND PIPE ROTATION IN AN ANNULUS
Erman Ulker, Mehmet Sorgun, İsmail Solumus, Ziya Haktan Karadeniz

16:00-17:30 CM 4- PROJECT MANAGEMENT / VYCH5
Chairs: Gürkan Emre Gürcanlı, Beliz Özboron Orakçal

ASSESSING THE IMPACT OF PROJECT CHARACTERISTICS ON CONSTRUCTION PROJECT SUCCESS
Sevilay Demirkesen, Beliz Özboron
MOTIVATION IN TURKISH CONSTRUCTION INDUSTRY
Gözde Çelik, Abdulkadir Budak, Sarbast Moslem

DUST CONTROL IN CONSTRUCTION: A CASE STUDY OF THE CIVIL ENGINEERING LABORATORIES
İrem Bayram, Özge Akboğa, Selim Baradan

MEASURING QUALITY PERFORMANCES OF SUBCONTRACTORS USING KEY PERFORMANCE INDICATOR (KPI) MODEL
Befrin Neval Bingol, Gül Polat

RETROFITTING AN OLD HOUSE TO A LOW ENERGY HOUSE
Alireza Rezaei

CONTRACTOR PERSPECTIVE ON MATERIAL RISKS IN GREEN BUILDING PROJECTS
Aslı Pelin Gürgün, Gül Polat, Hasan Gökberk Bayhan

EVALUATION OF THE EFFECTIVENESS OF THE VIRTUAL SAFETY TRAINING METHODS IN THE CONSTRUCTION INDUSTRY
I. Ates Kiral, Semra Çomu

DETERMINATION OF ACTIVITY BASED ACCIDENT FREQUENCIES IN BUILDING CONSTRUCTION PROJECTS
Senem Bilir, G. Emre Gürcanlı

17:30-18:00  CLOSING CEREMONY

19:00-21:00  ACE ADVISORY COMMITTEE MEETING