

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



21 SEPTEMBER 2016

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, Aysegül 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 Çavuşlı

**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, Aysegül Askan , Ahmet Yakut

21 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



21 SEPTEMBER 2016

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, Muhammed 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.Özgür 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 Hakkı 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 Çalikoğlu

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



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

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, Aysegül 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 Khoolosi, Sedat Kabaşlı

ADVANCES IN HYDROPOWER PRODUCTION: MARINE ENERGY CONVERSION

Abdullah Muratoğlu, Mehmet İshak Yüce

21 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



21 SEPTEMBER 2016

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 Bachir

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



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

21 SEPTEMBER 2016

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 Doğanün, 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

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



21 SEPTEMBER 2016

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

Ganze Erzençin, 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



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

**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 Eskandari-Ghadi

14:00-15:30

TR 1- TRANSPORTATION ENGINEERING I / VYCHS

Chairs: A. Hilmi Lav, Gökmen Ergün

**BICYCLE FRIENDLY INTER-CAMPUS TRANSPORTATION: A CASE STUDY OF
BOGAZICI UNIVERSITY**

İlgın Göktaşar, 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 APPLICATIONS ON URBAN MOBILITY

İlgın Göktaşar, Güzde Bakiöğlü

**MODELING THE EFFECT OF INCREASING PROPORTION OF HEAVY VEHICLES
IN REDUCTION TRAFFIC FLOW SPEED IN IRAN HIGHWAYS**

Sajad Rezaei, Hadi Karbkhsh-Ravry, Ramin Mahmoodi Totonchi, Mohammad Worya Khordehbinan

**IDENTIFICATION OF TEMPORAL VARIATIONS IN SPEED PATTERNS FOR
URBAN ARTERIALS USING FLOATING CAR DATA (FCD)**

Oruç Altıntaşı, Hediye Tüydeş-Yaman, Kağan Tuncay

15:30-16:00

COFFEE BREAK

21 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



21 SEPTEMBER 2016

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



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

**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 COMPERATIVE 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 Sarıalioğlu, Volkan Pılgır, 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

21 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



21 SEPTEMBER 2016

APPLICATION OF BIOGENIC CALCIUM CARBONATE PRECIPITATION IN DEVELOPING SELF HEALING CEMENT BASED MORTAR

Ali Amiri, Zeynep Başaran Bundur

16:00-17:30 **HYD 2- COASTAL & ENVIRONMENTAL ENGINEERING / VYCH4**

Chair: Abdülsemal Altunkaynak

COST-EFFICIENCY OF RAINWATER HARVESTING SYSTEM APPLICATIONS IN PUBLIC SCHOOLS OF TURKEY

Onur Dünder, 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 Vazifehkah, 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, Ibrahim 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 Şarlak



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

21 SEPTEMBER 2016

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 Öztürk, 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 Öztürk

MODELING BURSA LRT SYSTEM AS METROBUS A CAPACITY ANALYSIS

Mehmet Rizelioğlu, Turan Arslan

18:00-21:00 WELCOME COCKTAIL

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



22 SEPTEMBER 2016

22 SEPTEMBER 2016

09:30-10:15 KEYNOTE SPEECH- ALBERT LONG HALL

SİBEL PAMUKÇU

Chair: Özer Çinicioğlu

10:15-11:00 KEYNOTE SPEECH- ALBERT LONG HALL

MURAT SAATÇIOĞLU

Chair: Cem Yalçın

11:00-11:30 COFFEE BREAK

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

Chair: Alper İlki

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 YEŞİL MOSQUE

Cavit Serhatoğlu, Ramazan Livaoğlu

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 Karaşin

INFLUENCE OF BLAST INDUCED GROUND MOTION ON DYNAMIC RESPONSE OF MASONRY MINARET OF YÖRGÜÇ PAŞA MOSQUE

Olgun Köksal, Kemal Hacıfendioğlu, 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**

Khalid. M. Mosalam, Ferit Çakır, Shakhzod. M. Takhirov

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. Baghdadi

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 Erdoğan, 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**

Hatice Öznur Öz, Diler Sabah Asaad, Erhan Güneyisi, Mehmet Gesoğlu

22 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



22 SEPTEMBER 2016

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 Çinicioğlu

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. Aysen Lav, Erdal Çokça

TREATMENT OF DREDGED SEDIMENT OF SOUMMAM RIVER IN THE REGION OF BEJAIA AT NORTHERN ALGERIA.

Brahim Banoune, 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



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

**NUMERICAL INVESTIGATION OF IMPROVED SOFT SOIL BY FLOATING STONE
COLUMNS BEHAVIOR UNDER SEISMIC LOADS**

Mustafa Vekli, Ferhat Şahinkaya, Cenk Cuma Çadır

**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 / VYCHS

Chair: Beliz Özorhon Orakçal

**CONSTRUCTION MANAGEMENT DATA WAREHOUSE IMPLEMENTATION
FOR TECHNICAL WORKS IN A MUNICIPALITY**

Ömer Giran, Murat Anbarcı, Osman Hürol Türkakın

**ENTERPRISE RESOURCE PLANNING IMPLEMENTATION: A REVIEW IN
CONSTRUCTION FIELD**

Khensila 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**

Gülsüm Sevede Baltası, Ragıp Akbaş

13:00-14:00 LUNCH

22 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



22 SEPTEMBER 2016

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

Chairs: Kadir Güler, Ahmet Yakut

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 Sıcacık, 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

Chairs: Cem Topkaya, Serdar Selamet

EXPERIMENTAL RESEARCH ON DIFFERENT CONFIGURATIONS OF COLD - FORMED STEEL SHEAR PANELS

Burak Karabulut, Serdar Soyöz, Gülay Altay, Barlas Ö. Çağlayan



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

BUCKLING RESTRAIN BRACES WITH NEW CASING SYSTEM

Ramazan Özçelik, Yağmur Dikiciaşık, Kazım Burç Civelek

**RESPONSE OF BUCKLING RESTRAINED BRACED FRAMES WITH DIFFERENT
YIELD STRENGTH AND YIELDING LENGTH**

Mehmet Bakır Bozkurt, Yasin Onuralp Özkılıç, 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 Özsoy 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 Öztürk, Burcu Akçay

**SOME PROPERTIES OF SELF CONSOLIDATING CONCRETE PRODUCED BY
RECYCLED CONCRETE AGGREGATES**

Houssein Ghandour, Özgür Eren, Rouba El Dalati

FRESH CHARACTERISTICS OF TIRE CHIPS MODIFIED SELF - COMPACTING CONCRETE

Erhan Güneyisi, Mehmet Gesoğlu, Nahla Naji, Süleyman İpek

**FRESH STATE PROPERTIES OF STEEL FIBER REINFORCED SELF -
COMPACTING CONCRETE WITH VARIOUS FIBER VOLUMES**

Anıl Niş, Nilufer Özyurt, Turan Özturan

22 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



22 SEPTEMBER 2016

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 Edinçliler, 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 GEOSYNTHETICS- 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



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

22 SEPTEMBER 2016

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 Akbıyıklı

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 Firuze Erdil, Kazım Burc Civelek

A COMPARATIVE STUDY ON PUSHOVER RESPONSE OF MEGA BRACED RC FRAMES

Diyar Yousif Alı 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

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



22 SEPTEMBER 2016

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 Hakkı Omurtag

DEVELOPING THREE-ELEMENT MODEL FOR QUASI-STATIC ANALYSIS OF VISCOELASTIC PLATES

Gülçin Tekin, Fethi Kadioğlu

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, Zeki 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



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

**THE EFFECT OF HIGH TEMPERATURE EXPOSURE ON THE BEHAVIOR OF
SELF-COMPACTING CONCRETE (SCC)**

Noura Djebri, 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 EUPHRATES 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 Yeğın, 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 Sıddık Eker, Zeki Karaca

22 SEPTEMBER 2016

ACE 2016

12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



**OPTIMIZING THE ASPHALT AND THE HYDRATED LIME ADDITIVE CONTENT
RATIOS OF MARSHALL MIXTURES USING ARTIFICIAL NEURAL NETWORKS**

Sinan Yardım, Selim Dünder, Betül Değer Şitilbay

**EVALUATION OF SURFACE ENERGY COMPONENTS OF UNMODIFIED AND
MODIFIED ASPHALT BINDERS WITH SESSILE DROP METHOD**

Mehmet Bayazıt, Tuncay Cansever, Yüksel Taşdemir

19:00 - 22:00 GALA DINNER

22 SEPTEMBER 2016



23 SEPTEMBER 2016

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
Siddik 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 Gücüyen, 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 Fettahoglu

ACE 2016

12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



23 SEPTEMBER 2016

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 Özakgöl, 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, Cemil 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, Şükrü Yetgin, Ahmet Çavdar



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

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, Hükmü Ağaç, 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, Nizamettin Hamidi

A CRITICAL POINT APPROACH FOR THE INTERPRETATION OF RECOVERY PUMP TEST DATA

A.Ufuk Şahin, Emin Çiftçi

MAPPING OF GROUNDWATER POTENTIAL IN THE HARRAN ŞANLIURFA PLAIN BY USING GIS BASED ON GEOSTATISTICAL ANALYST.

Recep Çellik, 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 Arıkan, 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

23 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



23 SEPTEMBER 2016

11:30-13:00 GEO 5 - SOIL BEHAVIOR AND SOIL IMPROVEMENT II / VYCH5

Chairs: Ayfer Erken, İlnur 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 ALGERIA)

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, Özgür Anıl

FLEXURAL BEHAVIOUR EFFECTS OF GFRP BARS IN REINFORCED CONCRETE BEAMS

Şule Bakırcı 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, Özgür Kurç



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

**FLEXURAL BEHAVIOUR OF ULTRA HIGH PERFORMANCE FIBER REINFORCED
CONCRETE BEAMS REINFORCED WITH FRP AND OR STEEL REBARS**

İlker Fatih Kara, Ashraf F. Ashour

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**

Bariş Özcan, Emre Duman, Utkan Çorbacioğlu

**FAILURE ANALYSIS OF GEDİK 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 Firuze Erdil, Ramazan Özçelik

23 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



23 SEPTEMBER 2016

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

Ragıp 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 Saidi, El Abbès 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



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

MAXIMIZING THE TOTAL POWER IN A WATER RESOURCES SYSTEM

Onur Arslan

14:00-15:30 CM 3- CONTRACTUAL ISSUES / VYCHS

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**

Rifat 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 İltar, Gökçe Bakioğlu

**A COMPARATIVE ANALYSIS OF TIME CONSIDERATIONS IN AIA A201-2007
AND TURKISH GENERAL CONDITIONS FOR BUILDING CONSTRUCTION**

Ruveyda Komurlu, David Arditı

**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

23 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



23 SEPTEMBER 2016

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 Kadioğlu

**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, Bahadır 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 Belachra

**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



12th INTERNATIONAL CONGRESS ON
ADVANCES IN CIVIL ENGINEERING

ACE 2016

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey

**CONDITION APPRAISAL AND MAINTENANCE PLANNING FOR SELECTED
GEOTECHNICAL ASSETS ALONG A HIGHWAY**

Ahmad Alkhouzei, Eriş Uygur, 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 Zümrüt, 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 Zaloğlu, Emre Haspolat

NUMERICAL ANALYSIS OF FLOW AROUND A CIRCULAR BRIDGE PIER

Nazire Göksu Soydan, Oguz Simsek, Veysel Gumus, Mevlut Sami Aköz

SIMULATION OF SLUG FLOW IN A HORIZONTAL PIPE

Ali Ersin Dinçer, Zafer Bozkus

**PRESSURE LOSSES MEASUREMENTS CONSIDERING TEMPERATURE AND
PIPE ROTATION IN AN ANNULUS**

Erman Ulker, Mehmet Sorgun, İsmail Solmus, Ziya Haktan Karadeniz

16:00-17:30 **CM 4- PROJECT MANAGEMENT / VYCH5**

Chairs: Gürkan Emre Güranlı, Beliz Özorhon Orakçal

**ASSESSING THE IMPACT OF PROJECT CHARACTERISTICS ON
CONSTRUCTION PROJECT SUCCESS**

Sevilay Demirkesen, Beliz Özorhon

23 SEPTEMBER 2016

ACE 2016 12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING

21 - 23 September 2016

Boğaziçi University, Istanbul / Turkey



23 SEPTEMBER 2016

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 Bingöl, 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 Gürçanlı

17:30-18:00 CLOSING CEREMONY

19:00-21:00 ACE ADVISORY COMMITTEE MEETING