2 June 2016 Thursday

08:30 – 09:30  Registration

GRAND HALL

09:30 – 10:00  Opening Ceremony

10:00 – 10:10  Coffee Break

10:10 – 10:50  Keynote Lecture:
   Chairperson: Professor Feyza ÇİNİCİOĞLU
   Organising Committee Chair, President, TSSMGE, Turkey

   
   Professor Antonio GENS
   Vice-President of the ISSMGE for Europe, Spain
   Failure of a harbour quay founded on soft ground

10:50 – 11:30  Keynote Lecture:
   Chairperson: Professor Mehmet BERİLGEN
   Yıldız Technical University, Turkey

   Professor Rolf KATZENBACH
   Technical University of Darmstadt, Germany
   New methodologies and developments in forensic geotechnical engineering - theory and examples, Katzenbach, R. & Bergmann, C.

11:30 – 11:40  Coffee Break

11:40 – 13:00  Special Lectures
   Chairperson: Professor Ali Ünal ŞORMAN
   Dean, Faculty of Engineering, Near East University, North Cyprus

   Professor Turan Durgunoğlu, Zetaş, Turkey
   Barette Foundations

   Professor Mete Erdemgil, SMP Engineering Ltd., Turkey
   Geotechnical design considering the dependence of pressure and displacements in soils

   Dr. Rasin DÜZCEER, KASKTAŞ, İstanbul, Turkey
   Construction of shoring systems for TBM launch and receiving structures of Eurasia tunnel, Düzeer, R., Gökalp A. & Adatepe Ş

   Orhan Esat İnanır, Geogrup İnşaat AŞ., Turkey
   Performance based piled foundation design and pile loading tests

13:00 – 14:00  Lunch
14:00 – 14:40  **Keynote Lecture:**  
**Chairperson:** Professor Mustafa LAMAN  
Çukurova University, Turkey

**Professor Dong-Soo KIM**  
Korea Advanced Institute of Science and Technology, Korea  
*Physical modeling of the foundation for offshore wind towers*  
*Dong-Soo, Kim, Jae-Hyun, Kim, Jun-Tae, Seong*

14:40 – 15:20  **Keynote Lecture:**  
**Chairperson:** Professor Gökhan BAYKAL  
Boğaziçi University, Turkey

**Professor Ivan VANICEK**  
Immediate Past Vice-President of the ISSMGE for Europe, Czech Republic  
*Specific position of earth structures in geotechnical structures design*

15:20 – 15:30  Coffee Break

15:30 – 16:50  **HALL 1**  
**SESSION 1: Foundation and slope stability**  
**Chair Person:** Professor Stefan VAN BAARS  
University of Luxembourg, Luxembourg

Bearing capacity of circular footing on RFB over granular pile-engineered ground  
*Abhishek, S.V., Rajyalakshmi, K. & Madhav, M.R.*

Numerical investigation of the uplift capacity of inclined anchor plates in sand  
*Emirler, B., Tolun M. & Laman M*

Investigating the failure mechanisms of sandy slopes under seepage using reduced scale laboratory models  
*Akay, A., Özer, A. T., Elbeyli, Y. & Pusar, M.*

Evaluation of slopes reinforced with soil nails by finite element analysis  
*Seckin Halat B., Ikizler S.B., Urin F. & Angin, Z.*

A comparison of the methods used for estimating free anchor lengths  
*Cavlaz, C.R. & Akbas, S.O.*

Numerical solution about consolidation process of stone column  
*Uysal, F. & Yildiz, A.*
HALL 2
SESSION 2: Soil characterization
Chairperson: Müge İNANIR
Secretary, TNCSMGE, Turkey

A comparison between the behavior of laboratory and field plate load tests on collapsing soil
Shalaby, S. I.

Shear Strength Properties of Interlocked Eps-Block Geofoam – Ottawa Sand Interface
Özer, A. T., Akay, O. & Ateş, Y.

An influence research on dynamic shear modulus of sandy soils
Onur M.I., Tuncan M. & Tuncan A.

The effects of the polymer fiber contents on the compressive strength of alker
Balkis, A. & Darweesh S.

Effect of moulding water content on freezing-thawing behavior of compacted two clayey soils
Işık F., Akbulut R.K., Zaimoğlu A.Ş. & Arasan S.

Effect of silt size and gradation on cyclic liquefaction of sands
Etminan, E., Monkul, M.M. & Şenol, A.

HALL 3
SESSION 3: Soil characterization
Chairperson: Assoc. Prof. Dr. Ayşe EDİNÇLİLER
Boğaziçi University, Turkey

Effect of pore water chemistry on volume change behavior of expansive clay
Vanda, Y. & Bilsel, H.

On the properties of silt size particles
Toğrol, E. & Kiran, F.

Relationship between the Standard penetration test and pressure meter test: A case study from Izmir
Erzin, Y. & Tuskan, Y.

Estimation of compaction characteristics of lateritic soils
Adu-Parkoh, E., Das, B.M. & Atalar, C.

Parameter analysis of expansive soil
Amal, M. & Bahar, R
HALL 4  
SESSION 4: New methods in geotechnical engineering  
Chairperson: Assoc. Prof. Dr. Özer ÇİNİCİOĞLU  
Boğaziçi University, Turkey  

UCS characteristics of sand grouted with gloxal blended sodium silicate  
*Mollamahmutoğlu, M.* & *Avcı, E.*  

Failure mechanisms and corresponding shape factors of shallow foundations  
*Van Baars, S.*  

Hydraulic capability of polymer-treated GCLs  
*Özhan, H.O*  

3-D numerical assessment of rammed aggregate pier (RAP) group effects: a geothermal power plant case history site  
*Oner L., Kurt Bal E. & Cetin K.O.*  

An overview of electrokinetic for soil treatment  
*Abiodun, A.A.* & *Nalbantoglu, Z.*  

Bearing capacity of inclined loaded strip foundation on geogrid-reinforced sand  
*Sahu, R., Patra, C., Das, B.M & Atalar, C.*  

16:50 – 17:00   Coffee Break  

17:00 – 18:20  
HALL 1  
SESSION 5: Foundation and slope stability  
Chairperson: Assoc. Prof. Dr. Celal AĞAN  
University of Harran, Turkey  

Case study of a slope stability  
*Bildik, S., Arslan, A., Misir, G. & Laman, M.*  

Numerical study of undrained vertical bearing capacity for embedded strip footings in non-homogeneous clay  
*Ouahab, M. Y., Mabrouki, A., Benmeddour, D. & Mellas, M.*  

Experimental and theoretical Nq values for dry and saturated sands  
*Yenginar, Y., Olgun, M. & Fidan, B.*  

Experimental research on pile groups with different pile arrangements in sandy soils  
*Yenginar, Y. & Tan, Ö.*  

Finite elements modelling of load-settlement behaviour of strip footings in Gibson’s soils  
*Zerarka, H. & Bouafia, A.*  

Experimentally investigation of the performance of jet grout columns with fine grained cement  
*Fidan, B. & Tan, Ö.*
HALL 2
SESSION 6: Soil characterization
Chairperson: Assoc. Prof. Dr. Huriye BİLSEL
Cyprus International University, North Cyprus

Determination of effective diffusion coefficient of calcium hydroxide through embankment of construction waste soil
Kang, J. K., Park, S. Y. & Shin, E. C.

Numerical modelling of liquefaction tests of fully saturated sands in Csslb

New relationship on the compressibility of remolded clays
Eskişar, T. & Altun, S.

Effects of sample trimming on undrained shear strength of clays
Akgüner, C. & Kirkit, M.

The influence of CaCO3 formed by ureolytic bacteria on the swelling degree of bentonite
Yıldırım, N., Gurtug, Y. & Sesal, C.

HALL 3
SESSION 7: Earthquake geotechnical engineering
Chairperson: Asst. Prof. Dr. Taichi HYODO
Tokyo University of Science, Japan

The approach of evaluation of mechanical characteristics of chemically stabilized sand based on equivalent granular void ratio
Hyodo, T.

Influence of dilatancy on cyclic mobility
Boduroğlu, S. & Cinicioglu, O.

Impact of climate on the activity of Ain El Hammam landslide, Algeria
Djerbal, L. & Bahar, R.

How important the ground strain and pipeline orientation for the seismic damages
Toprak, S., Nacaroglu, E. & Koc, A. C.

Analysis of compressive strength properties of cement enhanced sand-bentonite mixtures by Neural Network
Iravanian, A. & Bolat Kröger, S.

Ultimate Compressive Capacity of a Group of Equally Spaced Helical Screw Anchors in Sand
Mukherjee, S. & Mittal, S.
HALL 4
SESSION 8: New methods in geotechnical engineering
Chairperson: Assoc. Prof. Dr. Pedro Ferreira

Estimation of coefficient of consolidation with radial flow by inflection method from in-situ time-settlement plots
Charan, V. & Madhav, M.R.

Numerical modelling of geocell reinforced sand considering the actual geometry of geocell
Sanjei, C. & De Silva, L.I.N

On the analysis of exec. energies for cont. flight auger piles to reduce costs and to enhance productivity and reliability of foundations
Ozelim, L.C. de S.M. & Campos, D.J.F.

Strength properties of cemented and fiber reinforced sands
Ayraçma, B. & Teymür B.

New method of producing artificial tropical residual soils from older British Soils
Sadiq, A., Jefferson, I., Ghataora G. & Culshaw, M.

19:00 – 21:00 Welcome Reception
SESSION 9: Foundation and slope stability
Chairperson: Dr. Barış TRAK
Technical Director (ret.) Council of Europe Development Bank, France

Bearing capacity of strip footings resting on purely cohesive soil subjected to eccentric and inclined loading
Khitas, N.E.H., Mellas, M., Mabrouki, A. & Benmeddour, D.

Results from the analyses carried out of the rehabilitation on “Shpilje” Dam
Karakulev, M. & Cvetkovska, B

The rock fall protection method with usage of gabionade
Fidan, B., Yenginar, Y. & Olgun M.

Infinite Slope Analysis: a statistical approach in risk management
Albuquerque, B.C.P. & Domingues, V.R.

Determining of critical safety factors of homogeneous slopes with mathematically models
Erkan, İ.H., Uray, E. & Tan, Ö.

Analysis of installation factors of screwed tube piles with grout injection
Benoot J., Dewaele L., Provoost N. & Kindt P.

SESSION 10: Soil characterization
Chairperson: Asst. Prof. Dr. Ayşe Pekrioglu BALKIS
Cyprus International University, North Cyprus

Improvement of engineering properties for road subbase construction using steel slag and fly ash
Firat, S., Kardoğan, P.S.Ö., Işık, N.S, Yamak, S. & Yılmaz, G.

Effect of water salinity on the compaction of sabkha soil of Chott El-Hodna, Algeria
Messad, A. & Moussai, B.

The effect of particle shape on fabric formation and soil properties
Başarı, E. & Altunbaş C.

Hydromechanical behavior of a compacted mixture (sand/bentonite) used in landfill sites
Debieche, M. & Kaoua, F

Creep and rock fatigue
Erarslan, N. & Ersoy, A.
HALL 3:
SESSION 11: Earthquake geotechnical engineering
Chairperson: Professor Ayfer ERKEN
Istanbul Technical University, Turkey

Load capacity of stone columns and geosynthetic encased stone columns during and after seismic excitations
Cengiz, C., Güler, E. & Alexiew, D.

Effects of earthquake characteristics on site response analyses
Edinçliler, A. & Çalışoğlu, M.

Effects of earthquake characteristics on seismic performance of pipelines
Edinçliler, A. & Toksoy YS.

Investigation of soil-bedrock models for weak motion station’s spectrums
Özdağ, Ö.C., Akgün, M., Uluğ, A., Tunçel, A. & Dindar, H.

Soil liquefaction at Hinode area during 2011 great east Japan earthquakes
Toprak, S., Jinguji, M., Manav, Y. & Manav, R.

HALL 4
SESSION 12: New methods in geotechnical engineering
Chairperson: Assoc. Prof. Dr. Zalihe Nalbantoğlu SEZAİ
Eastern Mediterranean University, North Cyprus

Numerical study of the bearing capacity of a strip footing near of geosynthetic-reinforced soil retaining walls
Rahmouni, O., Mabrouki, A., Benmeddour, D. & Mellas, M.

Comparison between excavatability classification systems in anisotropic rocks
Janevski, B., Milanovski, M. & Janevska, A.

Development of a rapid load test method for shallow foundations
Touma, J., Sadek, S. & Najjar, S

Methodology for assessing the market value of buildings damaged by geo-hazards
Cvetkovska, B., Karakulev, M. & Jovanovski, M.

Marine geotechnical & geophysical survey in complex geological formations
Birid, K.

10:35 – 10:45 Coffee Break
GRAND HALL

10:45 – 11:25  Keynote Lecture:
Chairperson: Professor Kemal Önder ÇETİN
Middle East Technical University, Turkey

Dr. Thomas L. HOLZER
USGS, Menlo Park, USA
Regional liquefaction hazard mapping - Challenges

11:25 – 12:05  Keynote Lecture:
Chairperson: Professor Fatma BALIGH
Vice-President of the ISSMGE for Africa, Egypt

Professor Ergün TOĞROL
Honorary President, TSSMGE, Turkey
Soil mechanics mythology

12:05 – 12:20  Coffee Break

12:20 – 13:00  Keynote Lecture:
Chairperson: Professor Tuncer EDİL
University of Wisconsin-Madison, USA

Professor Lyesse LALOUI
Swiss Federal Institute of Technology, Switzerland
Geotechnical analysis of energy piles

13:00 – 14:00  Lunch

14:00 – 14:45  Near East Museum visit

GRAND HALL

14:45 – 15:25  Keynote Lecture:
Chairperson: Assoc. Prof. Dr. Aykut ŞENOL,
İstanbul Technical University, Turkey

Professor Braja M. DAS
Dean Emeritus, California State University Sacramento, USA
Use of geogrid in the construction of railroads
**HALL 1**  
**SESSION 13: Foundation and slope stability**  
**Chair Person: Dr. Moonkyung CHUNG**  
International secretary of KGS, Korea

Investigation of stress distributions under circular footings  
*Türedi Y. & Örnek M.*

A deep soil mixing application against soil liquefaction  
*Onur M.I., Kilic H.o, & Tuncan M.*

Assessment of bearing capacity of Rita Piles  
*Bouassida, W., Hamdi, E., Bouassida, M & Kharine, Y.*

Evaluating the performance of some geotechnical methods to estimate the sliding surface depth  
*Ağan, C.*

Seismic stability of infinite slope under effect of seepage parallel to ground surface  
*Şadoğlu, E., Kamiloğlu, H. A. & Yılmaz, F.*

Vertical static loading tests for large diameter deep boring piles in soil conditions of Astana, Kazakhstan  
*Zhussupbekov, A. & Omarov, A.*

**HALL 2**  
**SESSION 14: Soil characterization**  
**Chairperson: Assoc. Prof. Dr. Samir Ibrahim SHALABY**  
Suez University, Suez, Egypt.

Failure mechanism of landslides in ophiolites: Sorgun-Çekerek Motorway, Turkey  
*Ulamış,K., Elal, D. & Kılıç,R.*

Determining cohesive soil parameters from pressuremeter tests  
*Bahar, R.*

Investigation of the vibration isolation performance of EPS geofoam wave barriers by field test  
*Toygar, O. & Ülgen, D.*

Determination of compressibility parameters of a compact high plastic natural clay with laboratory tests  
*Taslak, H.B., Berilgen, S. A., Kılıç, H. & Özener, P. T.*

Numerical modeling of dynamic compaction  
*Kayadelen, C. & Altay, G.*
HALL 3
SESSION 15: Earthquake geotechnical engineering
Chairperson: Research Professor Jeong Ku KANG
Incheon National University, Korea

Site characterization for earthquake resistant building design: case study of TRNC Nicosia
Akgün, M., Dindar, H., Atalar, C. & Özdağ, Ö.C.

Contact stress mapping in geotechnical engineering
Baykal, G.

The behaviour of piled raft model foundation under low frequency sinusoidal waves in dry sand
Ünsever Yüksekol, Y.S. & Matsumoto T.

Evaluation of soil-foundation-structure interaction for the various foundation types via centrifuge test
Ha, J.G., Jo, S.B., Park, H.J. & Kim, D.S.

A simple procedure for soil-structure interaction with modal analysis
Lıvaoğlu R.

Slope failures during the 2010 Elazığ earthquake
Erken, A., Aksoy, S., Kouchehbogh, B.R., Nomaler, G.S. & Diker, D.

HALL 4
SESSION 16: New methods in geotechnical engineering
Chairperson: Dr. Luan C. de S. M. OZELIM
University of Brasilia, Brazil

Influence of preshear stress state and density on shear band geometry
Arda, Ç., Zafarani, A.R., Bildik, S. & Çinicioğlu, Ö.

A case study of retaining piles in limestone using plaxis 2d
Yalçın, H. & Çabalar A.F.

Implementation of pneumatic muscles in geotechnical laboratory equipment development
Baykal, G.

Study on crack density variations during true-triaxial tests on Inada Granite
Panaghi, K., Golshani, A., Takemura, T., Sato, M. & Takahashi, M.

Continuum-based modelling of geotechnical applications involving finite deformation
Hamad, F., Moormann, C., Gowda, S. & Stolle D.
16:45 – 17:00    Coffee Break
17.00 – 17:30   Closing Ceremony
19:30 – 21:30   Gala Dinner

4 June 2016 Saturday

9:00 – 18:00    Technical Visit Kyrenia – Nicosia - Famagusta