WORLD TUNNELERS MEET IN TURKEY

INTERNATIONAL TUNNELING SYMPOSIUM IN TURKEY
“Challenges of Tunneling”

2-3 December 2017, Istanbul
Wyndham Grand Istanbul Levent Hotel

SUPPORTING INSTITUTIONS

TunnelTurkey Organized by Turkish Tunnelling Society
INVITATION

Turkish Tunnelling Society decides to organize the “International Tunneling Symposium in Turkey” in Istanbul on 2-3 December 2017. The main theme of the symposium is “Challenges of Tunneling”.

Turkey has a great potential of both classical (NATM) and mechanized (TBM) tunneling and plans to spend 35 Billion USD for tunnelling in the near future. The geology of Turkey is very complex including North and East Anatolian Faults, tectonic activities and shear zones, rock and soil mixed and interfaced grounds, spalling and bursting rocks, squeezing and swelling grounds, blocky and highly fractured rocks and grounds under high in situ stress and water pressure and gassy rock formations. In addition to these, tunneling in shallow and unstable overburden under water table increases the potential difficulties in especially urbanized areas. Improvement of tunneling performance and optimizing the costs in those conditions require good scientific understanding, innovative technological developments and good engineering practices involving tunneling and geotechnical engineers, tunnel designers and contractors, machine manufacturers and material suppliers, and researchers.

The symposium provides a specialized forum discussing and exchanging knowledge related to classical and mechanized tunneling. It covers a wide variety of topics including ground characterization, field and laboratory tests, tunnel design, tunnel construction methods, case studies, ground treatment methods, support design, instrumented field measurements and monitoring, project and risk management, and electro mechanic works.

Turkish Tunnelling Society invites the practitioners and researchers involved with the classical and mechanized tunneling to “International Tunneling Symposium in Turkey” to share, cooperate and progress.

Prof. Dr. Nuh Bilgin
Chair of Organizing Committee
International Tunneling Symposium in Turkey
ORGANIZING COMMITTEE

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Cemal BALCI                                 Istanbul Technical University, Turkey
Mumamer ÇİNAR                               Şenbay-Kolin Construction JV, Turkey
Hanifi ÇOPUR                                 Istanbul Technical University, Turkey
Erdinç DEMİR                                Gulermak Construction and Contracting Co. Inc., Turkey
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Doğan TALU                                  Dogus Construction Group, Turkey
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Turgay ONARGAN                              Dokuz Eylül University, Turkey
Okay AKSOY                                  Dokuz Eylül University, Turkey
Olgay YARALI                                Bülent Ecevit University, Turkey

INTERNATIONAL ADVISORY BOARD

Nuh BİLGİN (Chair)                          Istanbul Technical University, Turkey
Georgios ANAGNOSTOU                         ETH Zurich, Switzerland
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SUPPORTED BY

Ministry of Transport, Maritime Affairs and Communications - General Directorate of Infrastructure Investments
Ministry of Transport, Maritime Affairs and Communications - General Directorate of Turkish State Railways
Ministry of Forestry and Water Affairs - General Directorate of State Hydraulic Works
Istanbul Metropolitan Municipality
Istanbul Water and Sewerage Administration
## SCIENTIFIC COMMITTEE

<table>
<thead>
<tr>
<th>Name</th>
<th>Nationality</th>
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<tbody>
<tr>
<td>Nuh BİLGİN (Chair)</td>
<td>Turkey</td>
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<tr>
<td>Nuri Ali AKÇİN</td>
<td>Turkey</td>
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<tr>
<td>Raşit ALTINDAĞ</td>
<td>Turkey</td>
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<tr>
<td>Georgios ANAGNOSTOU</td>
<td>Switzerland</td>
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<tr>
<td>Marcos ARROYO</td>
<td>Spain</td>
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<tr>
<td>Mustafa AYHAN</td>
<td>Turkey</td>
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<tr>
<td>Cemal BALCI</td>
<td>Turkey</td>
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<tr>
<td>Nick BARTON</td>
<td>Brazil / Norway</td>
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<tr>
<td>Ernst BÜCHI</td>
<td>Switzerland</td>
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<td>Hanifi ÇOPUR</td>
<td>Turkey</td>
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<td>M. Kemal GÖKAY</td>
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<td>Seokwon JEON</td>
<td>South Korea</td>
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<tr>
<td>Sair KAHRAMAN</td>
<td>Turkey</td>
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<td>Alaettin KILIÇ</td>
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<td>Ayhan KOÇBAY</td>
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<tr>
<td>Michael MOONEY</td>
<td>USA</td>
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<td>Priscilla NELSON</td>
<td>USA</td>
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<tr>
<td>Bjørn NILSEN</td>
<td>Norway</td>
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<td>Levent OZDEMIR</td>
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<td>Daniele PEILA</td>
<td>Italy</td>
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<td>Jamal ROSTAMI</td>
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<td>Markus THEWES</td>
<td>Germany</td>
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<td>Nuray TOKGÖZ</td>
<td>Turkey</td>
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<tr>
<td>Deniz TUMAÇ</td>
<td>Turkey</td>
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<tr>
<td>Bahtiyar ÜNVER</td>
<td>Turkey</td>
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<tr>
<td>Ali Osman YILMAZ</td>
<td>Turkey</td>
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SYMPOSIUM TOPICS

The objective of “International Tunneling Symposium in Turkey” is to discuss the various issues related to classical and mechanized tunneling focusing on engineering and technological solutions including planning, design, operation, monitoring, testing, modelling, research and development. Areas of interest include, but not limited to, the following topics:

- Design, planning and utilization of underground structures
- Field and laboratory investigations, soil and rock testing
- Geological and geotechnical reporting
- Classical tunneling, New Austrian Tunneling Method (NATM)
- Umbrella arch and other pre-support methods applications
- Shotcrete, wire mesh, steel support applications
- Drilling and blasting applications and vibrations in urbanized areas
- Excavation, support, haulage, ventilation and drainage applications
- New (rapid) excavation technologies, selection-design-performance
- Full-face tunneling machines (TBMs)
- Roadheaders and impact/hydraulic hammers
- Logistics-backup units in rapid excavation systems
- Mobilization, portals, void grouting
- Soil-muck conditioning, slurry conditioning
- Risk analysis and management, organization, tendering processes, costs
- Environmental effects, ground deformations, geotechnical measurements
- Probe drilling, ground-soil improvement, jet grouting
- Health and safety in underground excavations
- Post-excavation works, electro mechanics, signalization, fire monitoring
- Maintenance and rehabilitation of underground structures
- Mega tunnel applications, tunneling applications in mine developments

Prospective authors are invited to submit abstracts on various aspects of the symposium topics. Abstracts should be about 300-500 words long, with a title, authors' names and affiliations, and email addresses, and be submitted at the symposium website (tunnelturkey.org) before 10 August 2017. The official language of the symposium is English. All of the presentations will be simultaneously translated into Turkish.

SYMPOSIUM CALENDAR

First Announcement: 10 May 2017
Last Day for Abstract Submission: 10 August 2017
Last Day for Acceptance of Abstracts: 15 August 2017
Second Announcement: 20 September 2017
Last Day for Full Manuscript Submission: 10 October 2017
Last Day for Acceptance of Full Manuscript: 20 October 2017
Technical Program and Publishing Proceedings: 15 November 2017
Symposium: 2-3 December 2017
Celebration of Turkish Tunnelers’ Day: 3 December 2017
INFORMATION FOR PARTICIPANTS

Registration and Package Collection
For those registered on-line, package can be collected at the Symposium venue from 8.00 am on 2 December and throughout the Symposium duration. On-site registration can be done at the Symposium venue from 8.00 am on 2 December and throughout the Symposium duration. On-site credit card or cash payment is possible.

Coffee & Tea
Coffee, tea, water, fruits and snacks will be available during the whole symposium.

Lunches
Buffet lunches will be provided adjacent to the symposium hall during the whole symposium.

Welcome Reception
Welcome reception will be on 2 December 2017, starting at 6.00 pm, after the last technical presentation at Wyndham Grand Istanbul Levent Hotel. The reception is free to all delegates.

Banquet / Gala Dinner and Turkish Tunnelers’ Day Celebration
The Symposium Gala Dinner (Banquet) will be on 3 December starting at 7.00 pm in Wyndham Grand Istanbul Levent Hotel. Turkish Tunnelers’ Day will also be celebrated during the Banquet, including live music and dancing. Banquet dinner is included in the standard symposium registration. Additional banquet dinner tickets will be available on-site with cash purchase.

Name Tags (Badges)
All delegates will be issued with a name tag upon registration. Please wear the name tags when attending the symposium and symposium activities. Lost name tags can be replaced at the registration desk.

Symposium Proceedings
The hard copy symposium proceedings, as well as the soft copy proceedings in a USB stick, will be provided for the all registered delegates. It will contain all the full-papers (oral or poster presentation) accepted by the symposium scientific committee. Additional proceedings USB can be purchased at the registration desk.

Speaker Preparation
Speakers should have their presentation on a USB stick. Speakers are required to meet with their session chair and upload their presentation onto the symposium computer during the break prior to their session or earlier. Prior to their presentations, the presenters should provide a short CV for the section chairs. IT and AV assistants will be available during the whole symposium.
WiFi and Internet
Wifi will be free during the whole symposium at Wyndham Grand Istanbul Levent Hotel.

Special Dietary
Please pre-inform the symposium secretariat if you require a special dietary. The meals will include vegetarian dishes.

Transportation in Istanbul
The easiest way to move around in Istanbul is by affordable and comfortable taxi. Istanbul also has a good public transportation network, including the underground metro system (IETT). IETT tickets and public transportation card can be bought at any IETT stations.

Tourist Information
Istanbul is one of the most popular tourist destinations. Tourist information, including maps and guides will be available at the symposium registration desk. Representatives of the “International Tunneling Symposium in Turkey” will not organize any sightseeing or technical tours. Delegates can contact the hotel or travel agents for organized sightseeing tours.
REGISTRATION AND VENUE

The symposium venue is WYNDHAM GRAND ISTANBUL LEVENT HOTEL. This contemporary hotel is just in the Ozdilek Shopping Mall exit of the Levent Metro Station. The hotel also has sufficient rooms for the participants. Please book rooms using the webpage (wyndhamgrandlevent.com) of Wyndham Grand Istanbul Levent Hotel, with discounted symposium rate.

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>Before 15 November</th>
<th>After 15 November</th>
<th>Including</th>
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<tbody>
<tr>
<td>Standard Registration</td>
<td>300 €</td>
<td>350 €</td>
<td>Reception, lunch-coffee-snacks, proceedings book and USB, gala dinner</td>
</tr>
<tr>
<td>Student Registration</td>
<td>100 €</td>
<td>100 €</td>
<td>Reception, lunch-coffee-snacks, proceedings book and USB, gala dinner</td>
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Bank Account Details

** Euro (€) Account:**
Account Name: TÜNELCİLİK DERNEGLIGENCE İKTİSADİ İŞLETMESİ
Bank Name: TC İŞ BANKASI
Bank Branch: İTÜ Ayazağa İstanbul Türkiye
Brunch Code: 1281
(Euro) Account Number: 0180364
(Euro) IBAN Number: TR24 0006 4000 0021 2810 1803 64
CHIPS UID (Routing Code, ABA Number): 003546
Swift Code: ISBKTRIS
Explanation: Name-Surname, Registration Fee for International Tunneling Symposium in Turkey
Bank Address: Reşitpaşa Mah. İstinye Bayırı Cad. İTÜ Ayazağa Yerleşkesi No:2/1B SARIYER-İSTANBUL
Bank Phone Number: +90 212 2850748

**Turkish Lira (TL) Account:**
Account Name: TÜNELCİLİK DERNEGLIGENCE İKTİSADİ İŞLETMESİ
Bank Name: TC İŞ BANKASI
Bank Branch: İTÜ Ayazağa Şubesi
(TL) Account Number: 1281-0640348
(TL) IBAN Number: TR83 0006 4000 0011 2810 6403 48
Explanation: Name-Surname, Registration Fee for International Tunneling Symposium in Turkey

Symposium Discounted Room Rate
Wyndham Grand Istanbul Levent Hotel
Single Room Rate: € 100 / room / day + 8% VAT
Double Room Rate: € 110 / room / day + 8% VAT

* You can also pay through the symposium web page (tunnelturkey.org).
* After 27 November 2017, registration fee should be paid in cash or by credit card at the symposium registration desk on 2-3 December 2017.
* Receipt for registration payment will be issued and given at the registration desk.
SPONSORS AND DISPLAYS

Sponsorships of the symposium in various forms are welcome and appreciated. A display will be held in conjunction with the symposium to provide opportunities for manufacturers, material and equipment suppliers, engineering consultants and contractors, and R&D institutes and laboratories to showcase their products and services. Summary of sponsorship packages is outlined below. Interested sponsors and supporters are advised to contact symposium organizer for discussions and arrangements.

Sponsorship and Display Packages

<table>
<thead>
<tr>
<th>Platinum Sponsorship</th>
<th>Gold Sponsorship</th>
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<tr>
<td>* Valid for only one (1) company</td>
<td>* Valid for only one (1) company</td>
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<tr>
<td>* One free display area (4x3 m²)</td>
<td>* One free display area (4x3 m²)</td>
</tr>
<tr>
<td>* Complimentary full delegate registration for ten (10) people</td>
<td>* Complimentary full delegate registration for eight (8) people</td>
</tr>
<tr>
<td>* Company logo will be included in the symposium hall and website</td>
<td>* Company logo will be included in the symposium hall and website</td>
</tr>
<tr>
<td>* Two full pages free ads in the symposium proceedings (front cover in)</td>
<td>* Two full pages free ads in the symposium proceedings (back cover in)</td>
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<tr>
<td>€ 20,000</td>
<td>€ 10,000</td>
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<tr>
<th>Silver Sponsorship</th>
<th>Bronze Sponsorship</th>
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<tr>
<td>* Valid for only two (2) companies</td>
<td>* Valid for only three (3) companies</td>
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<tr>
<td>* One free display area (3x2 m²)</td>
<td>* One free display area (3x2 m²)</td>
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<tr>
<td>* Complimentary full delegate registration for six (6) people</td>
<td>* Complimentary full delegate registration for four (4) people</td>
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<tr>
<td>* Company logo will be included in the symposium hall and website</td>
<td>* Company logo will be included in the symposium hall and website</td>
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<tr>
<td>* One full page free ads in the symposium proceedings</td>
<td>* One full page free ads in the symposium proceedings</td>
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<tr>
<td>€ 8,500</td>
<td>€ 7,000</td>
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<tr>
<th>Welcome Cocktail (Reception) Sponsorship</th>
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<tr>
<td>* Valid for only one (1) company</td>
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<tr>
<td>* Complimentary full delegate registration for four (4) people</td>
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<tr>
<td>* Company logo-flag will be included in the reception hall and tables</td>
<td></td>
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<tr>
<td>* A short speech (5-10 min) during the reception</td>
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<tr>
<td>* Any video show during the reception can be provided if required</td>
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<tr>
<td>€ 10,000</td>
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## Gala Dinner (Banquet) Sponsorship
- Valid for only four (4) companies
- Complimentary full delegate registration for four (4) people
- Complimentary gala dinner tickets for ten (10) people
- Company logo-flag on the dinner tickets, dinner hall and tables
- A short speech (5 minute) during the dinner

€5,000

## Lunch Sponsorship
- Valid for only two (2) companies (one sponsor for each day)
- Complimentary full delegate registration for four (4) people
- Company logo - flag on the lunch tickets, lunch hall and tables

€5,000

## Name Tag (Badge) Sponsorship
- Valid for only one (1) company
- Complimentary full delegate registration for four (4) people
- Company name and/or logo on the name tags and strings

€5,000

## Symposium Bag Sponsorship
- Valid for only one (1) company
- Complimentary full delegate registration for three (3) people
- Company name and/or logo in or on the bag

€5,000

## USB Sponsorship
- Valid for only one (1) company
- Complimentary full delegate registration for three (3) people
- Company name and/or logo on the USB
- Company ads and symposium proceedings in the USB

€5,000

## Symposium Notebook and Pen Sponsorship
- Valid for only one (1) company
- Complimentary full delegate registration for two (3) people
- Company name and/or logo on the notebook and the pen

€4,000

## Standard Display Area
- Display area (3x2 m²) on the display hall (panels, 1 table, 2 chairs, electricity)
- Totally 37 display areas are available on the display hall
- Complimentary full delegate registration for three (3) people

€5,000

## Other Promotion Opportunities
- Company brochures and promotion products (limited) in the symposium bag

€1,500

**Note-1:** The prices include VAT.

**Note-2:** The names of the all sponsor and supporter companies appear in the generic part of the symposium proceedings book.

**Note-3:** Display areas will be covered by the company displays. Decoration (covering) of the display areas with company displays may be provided by the symposium’s official organization company with a certain price.
STANDARD DISPLAY AREA

Standard Display Area: € 5000

* Display Area (3x2 m²) in display hall (panels, 1 table, 2 chairs, electricity)
* Totally 37 display area are available in the display hall
* Complimentary full delegate registration for three (3) people
VENUE / HOTEL INFO

The symposium venue is the Wyndham Grand Istanbul Levent Hotel. This contemporary hotel is just in the Ozdilek Shopping Mall exit of the Levent Metro Station.

Address:
Esentepe Mah. Büyükdere Cad. No: 177-183
34394 Şişli-İstanbul / Türkiye
E-mail: reservation@wyndhamgrandlevent.com
Phone: +90 212 386 1000

- More information about the symposium can be found at the symposium website “tunnelturkey.org”. Inquiries, abstract and paper submissions, registration and payment and other activities can be carried out at the symposium website.

Contact Info of the Organizing Committee
E-Mail: info@tunnelturkey.org
Website: tunnelturkey.org
Phone: +90 212 438 1754