14TH INTERNATIONAL CONFERENCE
UNDERGROUND CONSTRUCTION
PRAGUE 2019
JUNE 3–5, 2019 | PRAGUE, CZECH REPUBLIC
2ND ANNOUNCEMENT

www.ucprague.com
PREPARATORY COMMITTEE AND SCIENTIFIC COUNCIL

Chairman of the Preparatory Committee:
Dr. Alexandr Butovič – SATRA, spol. s r.o.

Chairman of the Scientific Council:
Prof. Matouš Hilar – 3G Consulting Engineers s.r.o.

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Ioannis Bakogiannis, Greece
Dr. Nick Barton, Norway
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Prof. Robert Galler, Austria
Dr. Tibor Horvath, Hungary
Martin Knights, UK

Local Members:
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Prof. Jiří Barták – Czech Technical University in Prague
Dr. Jaroslav Beňo – Metrostav a.s.
Dr. Eva Hrubešová – Technical University in Ostrava
Libor Mařík – HOCHTIEF CZ a.s.
Dr. David Mašín – Charles University in Prague
Miroslav Novák – METROPROJEKT Praha a. s.
Miloslav Novotný
Dr. Jan Pruška – Czech Technical University in Prague
Dr. Markéta Prušková – CzTA ITA-AITES, z. s.
Lukáš Rákosník – SATRA, spol. s r.o.
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Dr. Pavel Růžička – HOCHTIEF CZ a.s.
Petra Smejkalová – GUARANT International, spol. s r.o.
Jiří Smolík
Dr. Martin Srb – 3G Consulting Engineers s.r.o.
Boris Šebesta – Metrostav a.s.
Dr. Richard Šňupárek – Institute of Geonics AS CR, v.v.i.
Dr. Václav Veselý – SG Geotechnika a.s.
Jaromír Zlámal – POHL cz, a.s.

SUPPORTING ORGANIZATIONS
LETTER OF INVITATION

Dear Colleagues and Friends,

The ITA-AITES Czech Tunnelling Association cordially invites you to the 14th International Conference entitled “Underground Construction Prague 2019”, which will be held in Prague, the capital of the Czech Republic, June 3–5, 2019.

This international conference is one of the series of conferences “Underground Construction Prague”, which are held regularly every three years. Participants of past conferences enjoyed the scientific programme, venue and social programme. The conferences have been attended by distinguished international experts in the field and we look forward to prominent guests also in 2019. For these reasons, “Underground Construction Prague” can be considered as one of the key events of 2019 in the discipline of underground construction.

The joint conference will be held at the Clarion Congress Hotel Prague and will include a technical exhibition and a poster session.

The conference is endorsed by the International Tunnelling and Underground Space Association (ITA).

We are looking forward to your active participation and exchange of new information and experience.

Ivan Hrdina
Chairman CzTA ITA-AITES, z. s.

Dr. Alexandr Butovič
Chairman of the Preparatory Committee

Prof. Matouš Hilar
Chairman of the Scientific Council

CONTACTS

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Fax: +420 284 001 448
E-mail: ps2019@guarant.cz
Web: www.ucprague.com
GENERAL INFORMATION ABOUT THE CONFERENCE

Conference name: Underground Construction Prague 2019
Conference date: June 3–5, 2019
Conference venue: Clarion Congress Hotel Prague
Freyova 33, Prague 9 – Vysočany, Czech Republic
www.cchp.cz

The Clarion Congress Hotel Prague is a new modern hotel complex aimed at congresses and conferences. At the same time offers pleasant accommodation in comfortably furnished rooms, restaurant, bar and wellness center. Its advantage is an excellent transport accessibility – it is located directly at the metro station “Vysočanská” (line B), less than 15 minutes drive from the city centre. It has sufficient space in underground garages for guests arriving by car. Next to the hotel a shopping gallery Fénič can be found.

OFFICIAL LANGUAGES

English and Czech/Slovak. Simultaneous translation will be provided.

CONFERENCE SCHEDULE

Monday, June 3, 2019
• Opening Ceremony
• 4 Keynote Lectures
• 2 parallel sessions on 7 topics
• Technical exhibition
• Poster session
• Reception at the Břevnov Monastery

Tuesday, June 4, 2019
• 2 parallel sessions on 7 topics
• Technical exhibition
• Poster session

Wednesday, June 5, 2019
• Technical excursions
KEYNOTE LECTURES

**Dr. Luděk Sosna** (Czech Republic):
Planned tunnels on the Czech transport infrastructure

**Milan Majer** (Czech Republic):
The Ejpovice tunnel – planning and construction of the longest Czech railway tunnel

**Prof. Konrad Bergmeister** (Austria):
The longest underground construction in the world – the Brenner Base Tunnel

**Dr. Vojtech Gall** (United States):
The Gateway Program – The Hudson River Tunnel Project in New York, New Jersey

INVITED LECTURES IN THEMATICAL SESSIONS

**Session 1: Conventionally excavated tunnels**
Session chairs: Libor Mařík, Dr. Pavel Růžička

Invited lectures:

**Prof. Robert Galler** (Austria):
Challenges during tunnel construction and the installation of the equipment at ZAB – Zentrum am Berg

**Dr. Davorin Kolic** (Croatia):
New railway line Divica-Koper: Project development
Session 2: Mechanically excavated tunnels
Session chairs: Boris Šebesta, Jiří Smolík

Invited lectures:

Dr. Karin Baeppler (Germany):
Current Developments of Mechanized Tunnelling Technology for Variable Ground Conditions

Prof. Michael Mooney (United States):
Artificial Intelligence and Physical Model Based Performance Prediction of EPB TBM Tunneling

Session 3: Other underground structures, repositories, reconstructions and history
Session chairs: Dr. Richard Šňupárek, Dr. Jan Pruška

Invited lectures:

Martin Knights (United Kingdom):
Future of tunnelling: Influences, changes, needs and foreseeable needs

Heinz Ehrbar (Switzerland):
Selection of the optimum tunnel system with regard to the entire lifecycle

Session 4: Geotechnical investigation and monitoring
Session chairs: Dr. Alexandr Rozsypal, Dr. Václav Veselý

Invited lecture:

Prof. Wulf Schubert (Austria):
Recent developments in face mapping and tunnel health monitoring
Session 5: Numerical modelling, BIM, research and development
Session chairs: Dr. Eva Hrubešová, Dr. David Mašín

Invited lectures:

Prof. Bai Yun (China):
Deep Underground Space Development in Shanghai

Prof. Shahab Yasrobi (Iran):
Facing the jeopardies and the elaborations in the construction of a complex urban tunnel – Case study of Arah-Esfandiar-Niayesh tunnel

Session 6: Equipment, operational safety and maintenance
Session chairs: Lukáš Rákosník, Miroslav Novák

Invited lectures:

Bernhard Kohl (Austria):
Prevention and mitigation of tunnel related collisions

Hans-Peter Vetsch (Switzerland):
The Gotthard Base Tunnel: safety challenges in long tunnels and consequences for operations

Session 7: Risk management, contractual relationships and funding
Session chairs: Dr. Martin Srb, Dr. Jaroslav Beňo

Invited lecture:

Ioannis Bakogiannis (Greece):
Design and construction experience of road tunnels with concession contracts
OTHER PARTS OF THE TECHNICAL PROGRAMME

Poster Section will be available for authors whose proposal has not been selected for oral presentation.

Technical Exhibition of the conference partners and other companies will be installed next to the session halls and in the conference floor foyer.

Technical Excursions to tunnel construction sites in Prague and its surroundings will be held on the third conference day.

Authors of selected proposals will be notified by December 5, 2018. The deadline for the completed paper including all pictures and graphical annexes and the abstract of 300 words must be submitted at the website www.ucprague.com no later than January 31, 2019. The paper must be prepared exactly according to instructions (template), otherwise it may be rejected by the conference organisers.

All accepted papers will be published in the electronic Book of Papers in English and will also include papers from the Czech and Slovak Republics in Czech or Slovak languages. At the same time a printed Book of Abstracts with abstracts in English and Czech or Slovak languages will be available.

SOCIAL PROGRAMME

Date: 3 June 2019
Venue: Břevnov Monastery
Markétská 1, Prague 6
Time: 20:00

The conference reception will be held at the Břevnov Monastery where refreshments and cultural programme will be provided. The reception is part of the registration fee for the conference. A ticket for an accompanying person can be purchased extra.
REGISTRATION

The registration of conference participants and accompanying persons and accommodation booking is available online at the conference website www.ucprague.com from **November 15, 2018**.

**Registration fees**

<table>
<thead>
<tr>
<th>Fee</th>
<th>Early registration till January 31, 2019</th>
<th>Standard registration till April 15, 2019</th>
<th>Late registration from April 16, 2019 and onsite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delegate</td>
<td>400 EUR</td>
<td>440 EUR</td>
<td>480 EUR</td>
</tr>
<tr>
<td>Student</td>
<td>100 EUR</td>
<td>100 EUR</td>
<td>100 EUR</td>
</tr>
<tr>
<td>Accompanying person</td>
<td>90 EUR</td>
<td>95 EUR</td>
<td>95 EUR</td>
</tr>
<tr>
<td>Reception only</td>
<td>45 EUR</td>
<td>50 EUR</td>
<td>50 EUR</td>
</tr>
</tbody>
</table>

All prices include 21 % VAT.

**The registration fee includes:**
- Admission to the Opening Ceremony
- Admission to the scientific programme of the conference including a poster section and exhibition
- Conference materials including electronic Proceedings and printed Book of Abstracts
- Attendance at the Reception
- Participation in the technical excursion
- Coffee breaks and lunches (June 3–4, 2019)

**The student fee includes:**
- Admission to the Opening Ceremony
- Admission to the scientific programme of the conference including a poster section and exhibition
- Electronic Proceedings and printed Book of Abstracts
- Participation in the technical excursion
- Coffee breaks (June 3–4, 2019)

**The accompanying person fee includes:**
- Admission to the Opening Ceremony
- Participation at the Reception
- Guided walk in the historical centre of Prague
- Half day excursion out of Prague by bus
ACCOMMODATION

A number of hotels of various categories at reduced rates are available for participants of the conference. All hotels are located within reasonable distance from the conference venue, the Clarion Congress Hotel Prague.

Accommodation rates at the Clarion Congress Hotel Prague

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Special Price</th>
<th>General Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard room – price for booking until April 03, 2019</td>
<td>120 EUR</td>
<td>136 EUR</td>
</tr>
<tr>
<td>Executive room – price for booking until April 03, 2019</td>
<td>152 EUR</td>
<td>168 EUR</td>
</tr>
<tr>
<td>Standard room – price for booking from April 04, 2019</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Executive room – price for booking from April 04, 2019</td>
<td></td>
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</tr>
</tbody>
</table>

All rates quoted are per room per night including breakfast and 15 % VAT.

Other hotels are available at the conference website www.ucprague.com.

Due to heavy demand and to the fact that distribution of rooms in many hotels will be limited, we advise you to book your accommodation as soon as possible.

A full pre-payment is required to guarantee the reservation. After the full payment has been received, your hotel reservation will be confirmed in writing by e-mail. The full payment must be received on or before a payment due date, otherwise the reservation will be automatically cancelled.

CANCELLATIONS AND REFUNDS

The Conference Secretariat must be notified in writing by e-mail at ps2019@guarant.cz in the event of the cancellation of the registration. Cancellation by phone call will not be accepted. The appropriate refunds will be made after the Conference.

The following cancellation conditions apply:

Cancellation of registration

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Refund Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before April 30, 2019</td>
<td>full refund of the registration fee, handling fee of 30 EUR will be deducted</td>
</tr>
<tr>
<td>May 1, 2019 – June 2, 2019</td>
<td>50 % of the registration fee</td>
</tr>
<tr>
<td>From June 3, 2019</td>
<td>no refund</td>
</tr>
</tbody>
</table>

Cancellation of hotel accommodation

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Refund Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before May 8, 2019</td>
<td>full refund, handling fee of 30 EUR will be deducted</td>
</tr>
<tr>
<td>May 9, 2019 – May 25, 2019</td>
<td>one-night cancellation fee</td>
</tr>
<tr>
<td>From May 26, 2019 incl. a no show</td>
<td>100% cancellation fee for each cancelled night</td>
</tr>
</tbody>
</table>

All refunds will be made in June 2019.
TECHNICAL EXCURSIONS

The conference participants can choose from five site visits to the underground structures in and around Prague organised on Wednesday morning, **June 5, 2019**.

- **Site visit A – Tunnels Sudoměřice – Votice**
  The maximum number of participants for Site Visit A is 40.

- **Site visit B – Josef Regional Underground Research Centre**
  The maximum number of participants for Site Visit B is 20.

- **Site Visit C – Main traffic control centre in Prague (Control of traffic including tunnels)**
  The maximum number of participants for Site Visit C is 20.

- **Site visit D – Repository Richard**
  The maximum number of participants for Site Visit D is 20.

- **Site visit E – Old wastewater treatment plant in Bubenec**
  The maximum number of participants for Site Visit E is 20.

**Application for the Site Visit**

When registering, please tick the selected site visit on the online registration form.

More details on the site visits will be published at the website [www.ucprague.com](http://www.ucprague.com) and in the Conference Final Programme.

**English interpretation of all excursions will be provided for foreign participants.**
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Výstavba železničního tunelu Milochov, Slovensko
Construction of Milochov railway tunnel, Slovakia

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Construction of Spitzenberg motorway tunnel, Germany

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