



FRENCH TUNNELLING
AND UNDERGROUND
SPACE ASSOCIATION

Espaces souterrains de demain
Opere sotteranee del futuro
El espacio subterráneo del futuro
O espaço subterrâneo do amanhã
Unterirdische Räume der Zukunft
Ondergrondse Ruimte van de Toekomst
未来的地下空间

INTERNATIONAL CONGRESS LYON



17-18-19
OCTOBER

2011

www.aftes.asso.fr

UNDERGROUND SPACES for tomorrow

Circular n°2 - May 2010



ABTUS
BVOTS



FGU - GTS



AETOS



CPT

UNDERGROUND SPACES for tomorrow 1-Invitation

The 13th AFTES International Congress will take place at the CITE INTERNATIONALE in LYON from 17 to 19 October 2011.

Ever keen to improve technical discussions between all those involved in the profession, be they Project Managers, Engineers, Design Firms, Contractors or Suppliers, the AFTES is pleased to invite you to this Congress, which offers a number of new features:

- Two conference rooms allowing two technical topics to be presented simultaneously and enabling a larger number of speakers to take to the stage.
- A very large exhibition area set up around the Agora, a platform for dialogue that will serve to host the opening ceremony and the Roundtable.
- A strong focus will be placed on Underground Space, its design and the actors involved, be they Architects or Developers.
- A technical seminar on the Wednesday afternoon around the theme of “the geotechnical and environmental impact of Underground Works in urban areas”, aimed at Engineers both young and more experienced.
- An open invitation to Local Authorities, for which underground development is becoming a pressing issue.
- A special initiative devoted both to the various professions involved in underground development and to the training of young Engineers and Technicians, with a dedicated area in the exhibition hall.

We have a very warm welcome in store for you and look forward to seeing you in great numbers.

The President of the Organising Committee
Jacques BURDIN

The President of the AFTES
Alain BALAN

2-Co-organising associations

▶ Asociación Española de Tuneles y Obras Subterráneas (AETOS)

President : Manuel ARNAIZ RONDA
C/Almagro 42
ES 28010 Madrid - Spain

▶ Groupe Spécialisé pour les Travaux Souterrains (GTS-FGU)

President : Félix AMBERG
C/o Amberg Engineering AG
Rheinstrasse 4 - Postfach 64
CH 7320 Sargans - Switzerland

▶ Association Belge des Techniques et de l'Urbanisme Souterrain (ABTUS -BVOTS)

President : Jean-François THIMUS
C/o ADEB - Avenue Grandchamp,
148 - BE 1150 Bruxelles - Belgium

▶ Societa Italiana Gallerie (SIG)

President : Adolfo COLOMBO
Piazzale R. Morandi,
2 - IT 20121 Milano - Italy

▶ Comissão Portuguesa de Tuneis (CPT)

President : Antonio PINTO DA CUNHA
C/o LNEC - Av. Do Brasil,
101 - PO 1700-066 Lisboa - Portugal

3-Congress timetable

Monday, October 17, 2011	Tuesday, October 18, 2011	Wednesday, October 19, 2011
Morning	Morning	Morning
<ul style="list-style-type: none"> • Opening addresses • Inaugural conferences • Inauguration of the exhibition 	<ul style="list-style-type: none"> • Technical sessions • Site visits 	<ul style="list-style-type: none"> • Technical sessions • Site visits
Afternoon	Afternoon	Afternoon
<ul style="list-style-type: none"> • Technical sessions • Site visits 	<ul style="list-style-type: none"> • Technical sessions • Roundtable • Site visits 	<ul style="list-style-type: none"> • Specialist training seminar • Conclusion of the technical sessions • Closure of the Congress • Site visits
Evening	Evening	
<ul style="list-style-type: none"> • Official reception 	<ul style="list-style-type: none"> • Gala dinner 	

4-Congress themes

Five main themes for engineers, architects and urban planners, themes covering the construction and operation of underground structures, but also underground development:

► **Theme A: Underground space, a crucial solution for a sustainable city**

The cities of the future are going to be denser and will therefore rely heavily on their subsoil:

- How can the development of the subsoil and the surface be planned and combined coherently?
- How can the subsoil be made compatible with a diverse mix of uses, so as to better justify operations and enhance their profitability?
- How can non-monetary benefits for the population at large be incorporated into developments?
- How can one capitalize on the climatic advantages of underground development? What is the CO² impact?

► **Theme B: Technological innovations in underground works**

Technological advances are emerging at an ever growing rate, while there is increasing demand for project feedback and back analyses:

- What have been the keys to success of the large tunnels recently bored through the mountains of Switzerland, Italy and Spain?
- Has the border between TBM tunnelling and conventional methods shifted?
- How can the construction of metro lines be optimized in terms of technology, financing and safety?
- What recent innovations ensure the safety of underground works in urban areas?

► **Theme C: The long life of underground constructions**

The issues tied to operations and related equipment play a growing part in the design and overall cost of constructions:

- How can usage constraints (operation and maintenance) be taken into greater account at the design stage?
- What lessons can be learnt from the overhaul of road tunnels following the fires of the 1990?

- What innovations will facilitate the diagnosis, repair and upgrading of constructions?

► **Theme D: Making underground spaces more attractive**

Tomorrow's underground spaces must also be pleasant for all those who come into contact with them:

- Can the subsoil become a piece of architecture? How can it be made into a public space (or workspace) that is attractive, airy, accessible and safe?
- What examples of clean underground works with little impact on local residents and the environment?
- How can the subsoil be urbanized to free up space and reunify a scattered city from beneath?

► **Theme E: Project financing and contractualization**

By their very nature, underground works are characterized by great uncertainty. Contracts that take risks into account could be a key factor in controlling costs:

- How can economic actors be more closely involved in project financing?
- How can the risks inherent to underground works be better shared among the different actors?
- How can initial estimates be made more reliable and how can studies and surveys be tailored to the very real challenges projects?
- How can one control rising project costs resulting from heightened safety requirements?
- How can design and construction contracts evolve towards a partnership?

CALL FOR PAPERS

Individuals who wish to present a paper at the congress are invited to return the attached response form, or signal their interest via the website www.aftes.asso.fr, and to include an abstract of around 300 words in the language to be used during the oral presentation (English, Spanish, French, Italian, Dutch or Portuguese). The abstract must be accompanied by a translation in French or English. The authors must indicate the theme under which they wish their paper to appear.

The following schedule has been set:

- before 30 September 2010: submission of the response form and abstract;
- before 15 December 2010: acceptance of the papers;
- before 15 April 2011: submission of final papers for publication in the Congress proceedings, which will be provided to conventioners.

5-Practical information

► Site visits during the congress

Site visits will take place during the congress. These will be detailed in the final programme. The following visits are currently planned:

- Visit 1: Lyon, site of the 2nd Croix-Rousse tunnel
- Visit 2: Lyon, extension of line B of the metro between Gerland and Oullins
- Visit 3: The A89 motorway near Tarare, the Violay, Chalosset and Bussièrès tunnels
- Visit 4: Modane, safety tunnel of the Fréjus tunnel
- Visit 5: Le Creusot, NFM plant, construction of a large-diameter TBM
- Visit 6: Lyon-Turin-ferroviaire, sites in France and Italy depending on the state of progress of the project
- Visit 7: Lyon, underground spaces

► Post-congress trips

A number of post-congress trips will be organised. The following are currently planned:

- Visit to Beaujolais vineyards
- Visit to the Fréjus road tunnel (safety tunnel on the Italian side)
- Visit to Nant de Drance in Switzerland

► Conference participation fees

The fee for participating in the congress (conferences and one technical site visit) will be published in the final programme. It is currently estimated at:

- €650 inc. VAT for conventioners (€750 inc. VAT for late registrations),
- €400 inc. VAT for young professionals (conventioners or speakers under 35 years of age)

- €200 inc. VAT for half-day participants in the "Specialist training seminar", the title of which is: "The geotechnical and environmental impact of underground works in urban areas".

► Simultaneous translation

Translation from French, English, Spanish, Italian and Portuguese into French and English will be provided at every session of the AFTES Congress.

► Accommodation/Transport

Just as an indication, hotel prices in Lyon in 2011 should be within the following ranges. These prices include breakfast, service charges and taxes. Contact :
marine.frachon@gl-events.com

Room prices

★★★★ hotel	€170 to €240
★★★ hotel	€130 to €160
★★ hotel	€90 to €120

► Programme for accompanying persons

Full-day or half-day visits will be on offer daily throughout the congress. The following visits are currently planned:

- Museum day: Contemporary Art (in the Cité Internationale), silk craft, Saint-Pierre, gallo-romain de Fourvière.
- Day-long city tour (UNESCO heritage site): "traboule" passageways, monuments, and restaurants.
- Beaujolais day with a little geology (musée des Pierres Folles) and a vineyard tour.

Climate

At the time of year the congress is being held, the temperature will be between 10 and 20°C.

► Technical exhibition

As part of the congress, an exhibition will be held in the immediate vicinity of the conference centre. The stands can be used to exhibit models, materials and various types of underground works equipment. It will also be possible to exhibit heavy equipment (upon request to GL events).

Contact :

quentin.pouillard@gl-events.com

Price for a stand with basic facilities:

- Price per m²: €440 ex. VAT for collective members of one of the six co-organising associations
- Price per m²: €480 ex. VAT for companies that are not collective members.

Full documentation will be sent to companies upon request via the attached response form (or via the website). Spaces will be allocated as per the company's wishes in the order in which requests are received.

► Sponsoring

The congress organising committee offers various sponsoring packages to raise the profile of companies at the event.

Request via the attached response form (or via the website). Spaces will be allocated.

Registration for the congress:

To facilitate the event's organisation, please return the response form provided as soon as possible. The final programme containing detailed information and the congress registration form will be circulated in May 2011.

Correspondence - Secretary's office

All correspondence and information requests relating to the organisation of all parts of the event must be sent to:
www.aftes.asso.fr

UNDERGROUND SPACES for tomorrow

Identification

Surname Forename Mrs Miss Mr
 Profession/Title
 Company/Organization
 Areas of activity
 Postal address
 Postcode City Country
 Tel. Fax Email

Intentions

▶ Conferences / Seminar / Visits

Participation in the technical conferences (3 days) : As a conventioner: definite probable

As a speaker: definite probable

Participation in the specialist training seminar (1 day) : As a conventioner: definite probable

Participation in the site visits (\$5) : Visit 1 Visit 2 Visit 3 Visit 4 Visit 5 Visit 6 Visit 7

▶ Paper

I wish to present a paper

It relates to theme: A B C D E

The topic is:

Main author:

Submission of abstracts (300 words in English or French): 3 May to 30 September 2010 - Abstract template: www.aftes.asso.fr

Abstracts must be sent by email only to: www.aftes.asso.fr

▶ Exhibition

Participation in the exhibition - Information: www.aftes.asso.fr

Contact: aftes.cetu@developpement-durable.gouv.fr

▶ Sponsoring

We can offer you various sponsoring packages to raise your profile at the congress.

I wish to take advantage of the sponsoring scheme - Information: pascale.pouyet@gl-events.com

▶ Post-congress programme

I intend to take part in a post-congress trip

I will be accompanied by person(s) taking part in the congress' accompanying persons programme.

Information: www.aftes.asso.fr

Send your completed form by 12 october 2010 to:

By post or fax: **AFTES / CETU - M^{me} Nicole PLASSE**
25, avenue François Mitterrand - 69674 Bron - France
Fax : 00 33 4 72 14 34 90

By email: aftes.cetu@developpement-durable.gouv.fr