

5th International Seminar on Underground Space Health & Safety in Underground Space

2nd BULLETIN

Co-organized by:



LABORATÓRIO NACIONAL
DE ENGENHARIA CIVIL



Comissão Portuguesa
de Túneis



Sociedade Portuguesa
de Geotecnia



An event endorsed by

ASSOCIATION
INTERNATIONALE DES TUNNELS
ET DE L'ESPACE SOUTERRAIN
ITA
INTERNATIONAL TUNNELLING
AND UNDERGROUND SPACE
ASSOCIATION

LNEC Congress Center
October 18th, 2019

<http://cpt-seminars.lnec.pt/index.html>

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Società Italiana Gallerie
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FUG Fachgruppe für Untertagebau
GTS Groupe spécialisé pour les travaux souterrains
GLS Gruppo specializzato per lavori in sotterraneo
STS Swiss Tunneling Society

Introduction

The Portuguese Commission on Tunneling and Underground Space (CPT) of the Portuguese Geotechnical Society (SPG) and the National Laboratory for Civil Engineering (LNEC) are organizing the 5th International Seminar on Underground Space with the lemma “Health and Safety in Underground Space”. The Seminar will be held at the Congress Center of the National Laboratory for Civil Engineering in October 18th, 2019.

The lemma of the Seminar reflects the interests and concerns of the professional community of the built underground space about vital issues related with the human presence during construction and service.

The multi-disciplinary and transversal scope of the Seminar is evident on the multitude of professional domains: Engineering areas of Mechanics, Electricity and Electronics, Computation, Control and Safety, and, last but not least, Architecture and Psychology.

The adoption of emerging technologies on construction materials, methods and equipment in the planning and management of exploration and maintenance has been revolutionizing this field of activity.

CPT envisages renewing its high standard of organization built since the very beginning, more than 10 years ago. We hope to welcome numerous participants, both CPT affiliates and professionals of underground space engineering as well as students.

Organizing Committee

J. Bilé Serra (<i>LNEC/CPT</i>)	João Viegas (<i>LNEC</i>)
Raúl Pistone (<i>COBA/CPT</i>)	Manuel Tender (<i>CPT</i>)
Jorge Saraiva (<i>Dinâmica Aplicada</i>)	Luís Miranda (<i>LNEC/CPT</i>)

Who should attend?

This seminar is aimed at a wide spectrum of participants interested in the problems of construction safety and operation of underground works: regulatory entities, clients, concessionaires, planners, designers, contractors, equipment suppliers, professors, researchers and students.

Programme

08:15	SECRETARIAT OPENING Proceedings delivery and onsite registration
09:00	OPENING SESSION Opening Ceremony
	SESSION 1
09:20	Historical evolution of Health and Safety issues in tunnels <i>Dr Donald Lamont (Hyperbaric & Tunnel Safety Ltd)</i>
10:00	Enhancing H&S by application of digital engineering techniques. The case of the Northern Line Extension and Tideway Tunnel <i>Eng Joakim Schuwer (Ferrovia Agroman)</i>
10:20	Virtual reality Tunnell Boring Machine. Thames Tideway Tunnel - Central Project <i>Eng Alex Vaughan and Eng Barry Major (Ferrovia Agroman)</i>
10:40	Tunnels Emergency Planning – Methodology and Challenges <i>Eng Ferreira de Castro (Action Modulers, Consulting & Technology, Lda)</i>
11:05	Coffee Break
	SESSION 2
11:25	Design provisions: mitigation measures and control procedures <i>Dr Ingo Riess (Riess Ingenieur-GmbH)</i>
12:05	Active protection in fire fighting. Fire Fighting Pumping Systems (FFPS) <i>Eng Tomás Pinheiro (EFAFLU)</i>
12:45	Refurbishment of the smoke control system and evacuation strategy in the Brussels North-South Railway tunnel <i>Eng François Lapy / Eng Bart de Pauw (TUC Rail)</i>
13:10	Lunch
	SESSION 3
14:30	Portuguese National Authority standpoint regarding the safety of operating tunnels <i>Dr Pedro Costa (IMT)</i>
15:10	Tunnels in operation: design provisions for air quality control in tunnels in operation <i>Dr João Viegas (LNEC)</i>
15:50	Road Tunnels: Experimental period, assessment of systems and equipment in operation. Operation team training <i>Eng Dirceu Santos (Action Modulers, Consulting & Technology, Lda)</i>
16:15	Coffee Break
	SESSION 4
16:35	Health & Safety in underground works. Technical guide by the GT3 of CPT <i>Dr Manuel Tender (CPT, Mota Engil)</i>
17:15	Incidents and accidents. Risk Analysis and ISO 31000 standard <i>Dr Jorge Saraiva (Dinâmica Aplicada)</i>
17:55	Human factors regarding fire safety in road tunnels <i>Dr Marc Tesson (CETU)</i>
	CLOSING SESSION
18:20	Closure of the Seminar



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Registration fees

Until October 7 th 2019		After October 7 th 2019	
SPG/OE/OA members	€ 110,00	SPG/OE/OA members	€ 125,00
Other professionals	€ 130,00	Other professionals	€ 145,00
Students	€ 40,00	Students	€ 40,00

Registration by e-mail

E-mail to spg@lnec.pt with fiscal data for invoice and transfer receipt.

Web site: <http://cpt-seminars.lnec.pt/index.html>

Payment

Payment through bank transfer to
Caixa Geral de Depósitos - Alvalade
IBAN PT50 0035 2167 0000 4717 0306 5
SWIFT/BIC: CGDIPTPL

Date and venue

October 18th, 2019

LNEC Congress Center

Laboratório Nacional de Engenharia Civil (www.lnec.pt)

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Secretariat

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