

EXCLUSIVE PRE-CONFERENCE WORKSHOP

Monday 10th May 2021 at Victoria
University – Werribee West Campus

Full-Scale Structural Fire Test for Concrete Tunnel Linings

Located at the state-of-the-art fire testing facility at Victoria University in Melbourne, this half day workshop will give you the opportunity to witness a full-scale fire test of a structurally loaded concrete tunnel segment.

Fire Testing Facility

The Structural Fire Test Facility is located at the Institute for Sustainable Industries and Liveable Cities (ISILC), Victoria University Werribee West Campus. The facility includes a unique large-scale structural fire test furnace capable of testing structures under combined structural and fire loading. The furnace is designed accommodate a range of fire conditions, such as those found in tunnel fire scenarios. The furnace can test full-scale tunnel segments with an applied vertical loading and horizontal loading and is equipped with video and data streaming capability.

This state-of-the-art fire testing facility is unique in this country and Victoria University is now Australia's prime structural fire-testing laboratory able to test every fire curve in the world to the highest of international standards. It is the only facility in Australia with the capability to test full-scale structurally loaded concrete tunnel segments under fire conditions.

Witness a Real Fire Test

The workshop will provide a full in-depth presentation associated with the fire testing program of the Melbourne Metro Tunnel Project. Following this, the facility will show case a full scale structurally loaded tunnel segment tested to the RABT ZTV (Train) fire curve in addition to showing a full-scale demonstration of a static biaxial loaded flat panel test (new innovation). The state-of-the-art furnace is equipped with a furnace endoscope and Nikon capture system providing the ability to stream 4k video footage of inside the furnace in real time.

Workshop Presenter

The workshop will be coordinated and presented by Associate Professor Dr Maurice Guerrieri (BEng, PhD, Monash), a structural engineer with specialty in concrete spalling. He is the chief investigator for structural fire testing at Victoria University and has collaborated with world leading fire testing facilities around the world. Associate Professor Maurice Guerrieri has led the development of the fire testing capability at the facility and has been involved with fire testing for a number of major infrastructure tunnel projects throughout Australia. Dr Guerrieri will be assisted by Carlos Sanabria (Sh-engineering) and Wei Ming Lee (CYP).

Workshop Details

You are required to wear your own full-length trousers, long sleeved shirt and closed shoes. All other PPE, if required, will be supplied.

Transport from and to Melbourne CBD will be provided and the workshop will finish so that you can attend the Welcome Networking Event of ATS2020+1

\$75 per person includes:

- Return coach transfers from Melbourne Convention Centre hotels to Victoria University in West Werribee
- Half day workshop (commencing at 11am), including presentations and tours of the fire test facility and full-scale fire test
- Lunch and refreshments
- All necessary PPE will be provided

Places are limited and will be allocated on a first come first served basis. We encourage you to get your booking in early!

This exclusive workshop is available to Conference Delegates as part of the Conference Registration process. When you register via Eventbrite please select the "Full-scale structural fire test for concrete tunnel linings" option.

Register now at:

<https://australasiantunnellingconference.eventbrite.com.au>

