LTAA-ACES Seminar
Overview of Fire and Life Safety Provisions in Road and Rail Tunnels

Date: 10 July 2012 (Tuesday)
Time: 9.00 a.m. – 12.00 noon
Venue: LTA Block 5 Auditorium
No. 1 Hampshire Road
Singapore 219428

CPD points: 2 PDUs awarded by PE Board
STU point Pending approval

Fee: Member: $120 per pax
Member (Group Discount): $108 per pax
for group of at least 5 pax
Non-member/Others: $135 per pax

Closing date: 5 July 2012

Jointly Presented by:

[Logos]
PROGRAMME DETAILS

<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>8.30 – 9.00 am</td>
<td>Registration</td>
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<tr>
<td>9.00 – 10.00 am</td>
<td>Speaker 1: Er. Yeo Swee Khiank (ACES)</td>
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<td>10.00 – 10.15 am</td>
<td>Q &amp; A Session</td>
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<td>10.15 – 10.45 am</td>
<td>Tea Break</td>
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<td>10.45 – 11.45 am</td>
<td>Speaker 2: Er. Lim Lean Wan (LTA)</td>
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<td>11.45 – 12.00 noon</td>
<td>Q &amp; A Session</td>
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<td>12.00 noon</td>
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Synopsis of Presentation

Fire in rail and road tunnels can be devastating and catastrophic. Because they are enclosed spaces, smoke and toxic gases can quickly spread along the tunnels making condition untenable for people trapped inside. Temperature in the tunnels can also rise very quickly due to rapid development of the fire and can cause extensive damage to the tunnel structures and installations resulting in prolonged closure of the tunnels for repairs and restoration. Interruption of the tunnel usage due to closure can adversely affect the local and national economy as road and rail tunnels form an increasingly important component of the transportation network for major cities and countries. There is also a loss of confidence by the public on the use of the rail and road tunnel systems.

This seminar will provide the participants with an overview of the fire protection system and the fire and life safety provision for rail and road tunnels to mitigate the risks and consequences of fire. The topics covered include exit provisions, fire incident detection system, fire suppression system, smoke management system, communication system and fire incident management.
Speakers’ Profile

Speaker 1: Er. Yeo Swee Khiank (ACES)

Er. Yeo Swee Khiank is currently the regional manager with Sereca Fire Consulting Pte Ltd. He is a mechanical and fire safety engineer specializing in transit, infrastructure and industrial projects since 2000. Er. Yeo has experience in the review and preparation of designs for fire services, tunnel ventilation and environmental control systems, and conducted fire engineering studies using simulation tools for a variety of transit projects.

Er. Yeo’s recent road and transit projects with involvement of tunnel include Sentosa Gateway Tunnel, Mamaray Rail, Kolkata Metro, Jaipur Metro and Klang Valley MRT. Er Yeo drafted part of the Qatar’s fire safety requirements and codes that cover performance-based submission procedures, single exit for low-rise apartments, combustible materials for external wall, fire appliance access, fire command centre, refugee floor, smoke-free approach to staircase, rising main, etc.

Speaker 2: Er. Lim Lean Wan (LTA)

Er. Lim Lean Wan is currently the Engineering Consultant, Mechanical Services with the Land Transport Authority of Singapore and is responsible for overseeing the design of environmental control system (ECS) and tunnel ventilation system (TVS). He is also a registered professional mechanical engineer in Singapore.

Er. Lim has 30 years of experience in the design, operation and maintenance of ECS and TVS. He has been involved in the ECS and TVS designs of all the major rapid transit systems and road tunnel projects in Singapore. These include the North-South, East-West Line, North-East Line, Circle Line MRT systems, and Kallang-Paya Lebar Expressway, Marina Coastal Expressway and Woodsville Vehicular Tunnel projects.

He has also led his team to complete in-house design of the TVS for the Circle Line Extension, North-South Line Extension, Downtown Line, Woodsville Vehicular Tunnel and Sentosa Gateway Tunnel projects.
**ADMINISTRATION DETAILS**

For further information, please contact Ms Lilian Lean or Ms Jennifer Quek
Tel: 63242682   Email: secretariat@aces.org.sg

Address: Thomson Road Post Office, PO Box 034, Singapore 915702

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**Tuesday, 10 July 2012, 9.00 am – 12.00 noon**

Closing date for Registration: 5 July 2012

Please complete this registration form and send via email: secretariat@aces.org.sg

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Company:

Address:

Contact Person*: Tel. No. * Email*

Please complete the required information marked * for confirmation purpose

Payment mode: Cheque to be made payable to “**Association of Consulting Engineers Singapore**” Cheque No. / Amount: _____________________