

SPT2018



23rd SINGAPORE SYMPOSIUM ON PAVEMENT TECHNOLOGY (SPT 2018)

The Singapore Polytechnic Graduates' Guild (SPGG)
Friday, 25 May 2018

Jointly organised by

Pavement Engineering Society (Singapore) (PES)

and

**Center for Transportation Research (CTR)
National University of Singapore**

Supported by :

Land Transport Authority, Singapore

Sponsored by :



Engineering Laboratory Electronics (S) Pte Ltd

HIGHWAY

Highway International Pte Ltd



Shell Bitumen

Shell Eastern Petroleum (S) Pte Ltd

The Symposium

The Pavement Engineering Society (Singapore) (PES) and the Center for Transportation Research (CTR) of the National University of Singapore are the joint organisers of this annual event, with the Land Transport Authority (LTA) as a supporting organisation. PES and CTR are non-profit organisations that have been actively promoting the advancement of pavement technology in road, airfield and other industrial applications. To promote interactions among fellow professionals in the pavement industry, there exists a need for an annual local forum on pavement technology in Singapore. Such a forum will disseminate useful information and increase the awareness of local professionals of new materials and technology already in use in other parts of the world. It will also provide an effective mechanism for exchange of ideas and a convenient platform for dialogue among pavement professionals from both private and public sectors. PES, CTR and LTA are pleased to jointly present this important SPT series, and we seek the support of all professionals from the road, airfield, port and building industries who are involved in pavement-related activities.

Symposium Objective

The objective of the annual symposium is to promote the advancement of technology in road, airfield and port pavement and industrial floor construction/management/maintenance in Singapore by providing an effective forum for presentation and discussion of new pavement technologies, and for exchange of ideas and experience.

Scope of Symposium

The symposium covers all aspects of practice and research on Planning, Design, Materials, Construction, Maintenance, Rehabilitation and Management of Pavement – including flexible pavements, rigid pavements and all other forms of pavement for roads, airfields, ports and industrial floors.

PROGRAMME

0815 – 0900 **Registration**

0900 – 0920 **Welcome address**
by Er. Professor Fwa Tien Fang,
President, Pavement Engineering Society (Singapore)
Director, Center for Transportation Research, NUS

0920 – 0955 **Welcome Reception**

Session 1 : Advanced Equipment and Machinery Technologies in Pavement Industry

0955 – 1200 Forum Chair: Dr Kelvin Lee
Samwoh Corporation Pte Ltd

30 Years of Asphalt Mixture Production Technology Development in Singapore
Dr Low Boon Hwee
Highway International Pte Ltd

Trend of Asphalt Pavement Technology in Japan
Hisaho Mino and Yu Han
Sumitomo (S.H.I.) Construction Machinery Co., Ltd

Sustainable Road Construction/Recycling Technology
Peter Maurer
Ammann Singapore

30 Years of Pavement Monitoring Technology Development in Singapore
Dr Tan Jun Yew
Samwoh Innovation Centre

1200 – 1315 **Lunch**

Session 2: Good Practices in Pavement Engineering

1315 – 1515 Session Chair: Mr Tan Hua Soon
United E&P Pte Ltd

Performance Design of Asphalt Mixes
Glynn Holleran and Irina Holleran
Advanced Asphalt Technologies Ltd, New Zealand

Hot In-Place Bituminous Pavement Resurfacing
Foo Siew Kim
Land Transport Authority, Singapore

Bituminous Emulsion Solutions for Improved Performance
Dr Vincent Guwe
Shell Eastern Petroleum (S) Pte Ltd

Sound Absorption Characteristics of Pavement Mixtures
Dr Chu Longjia
Chang'an University, China

1515 – 1530 **Tea Break**

Session 3 : Forum -- New Technologies and Products

1530 – 1730 Forum Chair: Ms Leong Yin Fong
Land Transport Authority, Singapore

New Friction Tester for Low-Speed Skid Resistance Testing of Road and Airport Pavements
Prof. Han Sen, Chang'an University, China

Locating the Unlocatables
Joe Weiland, SubSurface Instruments, Inc., USA

Applications of X-Ray CT Scanner in Pavement Research
Dr. Raymond Ong, National University of Singapore

Use of X-Ray Computed Tomography for Pervious Concrete Pavement Mix Evaluation
Ajayshankar Jagadeesh and Dr Raymond Ong
National University of Singapore

1730 **End of Symposium**

REGISTRATION FORM

**23rd SINGAPORE SYMPOSIUM ON
PAVEMENT TECHNOLOGY (SPT 2018)**

Date : 25 May 2018 (Friday)
Time : 8.15 a.m. to 5.30 p.m.
Venue : The Singapore Polytechnic Graduates' Guild (SPGG)
1010 Dover Road, Singapore 139658

Fees : PES Members S\$250.00
: Non PES Members S\$300.00

Please reserve _____ places for the above symposium and please find enclosed a crossed cheque no. _____ for S\$ _____ made in favour of "**Pavement Engineering Society (Singapore)**".

<u>Name(s) of Participant(s)</u>	<u>Designation</u>	<u>PES Member</u>
1. Mr/Ms _____	_____	Yes / No **
2. Mr/Ms _____	_____	Yes / No **
3. Mr/Ms _____	_____	Yes / No **

** Please indicate

Name of Organisation : _____

Address : _____

Contact Person : _____ E-mail: _____

Tel No.: _____ Fax No.: _____

Signature : _____ Date : _____

Please forward application form and fees to:

Attn: Mr Ricky Kwek
c/o Pavement Engineering Society (Singapore)
190 Middle Road
#19 – 05, Fortune Centre
Singapore 188979
Email: Kwek@castlab.com.sg

**23rd SINGAPORE SYMPOSIUM ON PAVEMENT
TECHNOLOGY (SPT 2018)**

Date : 25 May 2018 (Friday)

Time : 9.00 a.m. to 5.30 p.m. (Registration from 8.15 a.m.)

Venue: The Singapore Polytechnic Graduates' Guild (SPGG)
1010 Dover Road, Singapore 139658

Organisers

Pavement Engineering Society (Singapore)
and

Centre for Transportation Research

National University of Singapore

Organising Committee

Chairman

Er Professor Fwa Tien Fang

Deputy Chairman

Dr Low Boon Hwee

Secretary

Dr Raymond Ong

Treasurer

Dr Tan Jun Yew

Members

Dr Ju Fenghua

Dr Jia Lu

Mr S Kapilan

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Dr Chan Chin Loong

Dr Vincent Guwe

Qualified for 6 PDUs by PEB