



SPT2024



29th SINGAPORE SYMPOSIUM ON PAVEMENT TECHNOLOGY (SPT 2024)

Holiday Inn Singapore Orchard City Centre
Tuesday, 10 September 2024

Jointly organised by

Pavement Engineering Society (Singapore)

and

**Center for Transportation Research
National University of Singapore**

Supported by:

LTA Academy, Singapore

Sponsored by:



Engineering Laboratory Electronics (S) Pte Ltd



Samwoh Corporation Pte Ltd



United E&P Pte Ltd



Oaks Paves 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 LTA Academy as a supporting organisation. PES, CTR and LTA Academy 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 Academy 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

08:15 – 09:00 **Registration**

09:00 – 09:20 **Welcome address**

Er. Prof. Fwa Tien Fang
President, Pavement Engineering Society (Singapore)
Department of Civil and Environmental Engineering,
National University of Singapore

09:20 – 09:55 **Welcome Reception**

Session 1: New Technologies for Enhancing Functional Performance of Pavement Wearing Surface

09:55 – 12:00 Session Chair: Dr. Jia Lu
RoCloud Technology Pte Ltd

Advances in Measurement of Pavement Roughness: State-of-the-Art and Future Trends
Prof. Liu Chenglong
Tongji University

Low-Speed Skid Resistance Testing: Comparison of British Pendulum Tester (BPT) and Dynamic Friction Tester (DFT)
Er. Prof. Fwa Tien Fang
National University of Singapore/Chang'an University

Construction and Project Implementation of Novapave Overlay as Pavement Preservation Technology
Prof. Hu Chichun
South China University of Technology

Research and Engineering Application of High Dosage Medium Temperature Asphalt Regeneration Technology
Ms. Wu Chunying
JSTI Group

12:00 – 13:15 **Lunch**

Session 2: Mix Design & Performance Tests of Pavement Material

13:15 – 15:15 Session Chair: Dr. Chan Chin Loong
Singapore Polytechnic

Temperature Gradients and Patterns of Dense-Graded Asphalt Concrete of Urban Roadways
Asst. Prof. Yu-Min Su
National Kaohsiung University of Science and Technology

Development of Carbon Neutral Parking Areas and Roads
Assoc. Prof. Peerapong
Chiang Mai University

Evaluation of Balanced Performance for Modified Asphalt Binders and Mixtures
Prof. Min-Chih Liao
National Taiwan University of Science and Technology

Recyclability of Waste Plastics-Modified Asphalt with Consideration to Environmental Impact
Dr. Lim Sin Mei
National University of Singapore

15:15 – 15:30 **Tea Break**

Session 3: New Technologies and Products

15:30 – 17:30 Session Chair: Dr. Than Than Nyunt
Land Transport Authority

Fiber Reinforced Asphalt Pavement: Performance Evaluation
Mr. Chin Su Hung
Forta, LLC

Application of Rubberized Asphalt for Long-lasting Pavement in Xiong'An New District Expressway Project
Ms. Yang Xiao Xiao
Hebei Transportation Investment Group Company

The Smart Way to Measure Thin Pavement Stiffness Using FWD with AI Fault Detection
Mr. Umberto Pinori
Dynatest A/S

17:30 **End of Symposium**

REGISTRATION FORM

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Date: 10 September 2024 (Tuesday)

Time: 08:15 – 17:30

Venue: Holiday Inn Singapore Orchard City Centre,
11 Cavenagh Road Singapore 229616

Fees: PES Members S\$ 300.00
Non-PES Members S\$ 350.00

	<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: _____ Email: _____

Tel No.: _____ Fax No.: _____

Signature: _____ Date: _____

Please forward registration form and payment details to:

Attn: Mr. Ricky Kwek
c/o Pavement Engineering Society
(Singapore)
190 Middle Road #19-05 Fortune Centre
Singapore 188979

Paynow:
UEN No.: S94SS0072A
Cheque Payable to:
Pavement Engineering Society (Singapore)

Or email to: Kwek@castlab.com.sg

* Prior to initiating any payment via Paynow, kindly ensure that you notify Mr. Kwek through email as specified above.

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ORGANISERS

Pavement Engineering Society (Singapore)
and
Centre for Transportation Research
National University of Singapore

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Qualified for 7 PDUs by PEB