



SPT2020



25TH SINGAPORE SYMPOSIUM ON PAVEMENT TECHNOLOGY (SPT2020 e-Symposium)

Thursday 19 November 2020

2:00 pm to 5:30 pm (Singapore Time | UTC+8)

Organized by: Pavement Engineering Society (Singapore)
Centre for Transportation Research, National University of Singapore

Supported by:  Asian Pavement Engineering Society

Registration Details

Registration is free.

Registration Link:

https://nus-sg.zoom.us/meeting/register/tZwoc-yppj8vHNYYpHdyxpoEf5OJ_vzXabQ2

After registration, you will receive a confirmation email containing information on joining the e-Symposium.

QR code for
registration:



About the Symposium

The Pavement Engineering Society (Singapore) (PES) and the Centre for Transportation Research (CTR) of the National University of Singapore (NUS) are the joint organizers of this annual event. PES and CTR are non-profit organizations 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 and CTR 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.

Symposium Programme

Time	Presentation
2:00 pm	Welcome and Opening Address Er Prof Fwa Tien Fang <i>Emeritus Professor, National University of Singapore</i> <i>Distinguished Professor, Chang'an University, China</i>
2:05 pm	Session 1: Advancements in Asphalt Technology Moderated by: Dr Jia Lu <i>Kraton Polymers Singapore Pte Ltd, Singapore</i>
2:10 pm	Latest Development in SBS-based Polymer Modified Binder Technology: Highly Modified Asphalt (HIMA) Sethi Manpreet <i>Kraton Polymers Singapore Pte Ltd, Singapore</i>
2:30 pm	Bitumen Innovation for Cleaner Road Paving: a Singapore Example Dr Vincent Guwe <i>Shell Eastern Petroleum (Singapore) Pte Ltd, Singapore</i>
2:50 pm	Molecular Dynamics Simulation of Oxidative Aging Effects on Asphalt Binder Properties Luo Lei, Dr Chu Longjia and Er Prof Fwa Tien Fang <i>Chang'an University, China</i>
3:10 pm	Upcycling Waste Plastic into Functionalized Additive for Reclaimed Asphalt Pavement Mixtures A/Prof Leng Zhen <i>Hong Kong Poly University, Hong Kong</i>
3:30 pm	Panel discussion
3:40 pm	Break
3:45 pm	Session 2: New Technologies for Pavement Engineering Moderated by: Dr Kelvin Lee Yang Pin <i>Samwoh Innovation Centre (SWIC), Singapore</i>
3:50 pm	Use of Waste Plastics in Roads and Circular Economy: Challenges and Opportunities for Urban Cities Ajayshankar Jagadeesh, Ruban Ganesha and Dr Ong Ghim Ping Raymond <i>National University of Singapore</i>
4:10 pm	Introduction to Infrared Asphalt Repair Michael M. Blake and Eapen John <i>KM International, USA</i>
4:30 pm	Preliminary Laboratory Study in Friction of Thermoplastic Pavement Marking Materials Dr Su Yu-Min <i>National Kaohsiung University of Science and Technology, Taiwan</i>
4:50 pm	Use of Smartphone Technology for IRI Assessment Ranjeet Deshmukh <i>Roadbounce, India</i>
5:10 pm	Panel discussion
5:20 pm	Closing Remarks Er Prof Fwa Tien Fang <i>Emeritus Professor, National University of Singapore</i> <i>Distinguished Professor, Chang'an University, China</i>
5:30 pm	End of Symposium