

ISAIA2019

3RD INTERNATIONAL SYMPOSIUM ON AIRFIELD INFRASTRUCTURE OF AIRPORTS -
ENGINEERING AND FUTURE DEVELOPMENT
AIRFIELDS FOR NEW GENERATION AIRCRAFT

28-30 AUGUST 2019
SINGAPORE AVIATION ACADEMY



PROGRAMME

Day 1 **Wednesday, 28 August 2019**

RUNWAY PAVEMENT DESIGN WORKSHOP

- | | |
|-------------|---|
| 0830 - 0900 | Registration |
| 0900 - 0910 | Welcome Address
<i>Michael Lim</i>
<i>Committee Chairman</i>
<i>Director, Singapore Aviation Academy</i>
<i>Civil Aviation Authority of Singapore</i>
<i>Singapore</i> |
| 0910 - 0920 | Opening Address
<i>Navneet Garg</i>
<i>Programme Manager, National Airport Pavement & Material Research Center (NAPMRC)</i>
<i>Federal Aviation Administration (FAA)</i>
<i>United States of America</i> |
| 0920 - 1030 | FAA's Advisory Circular AC 150/5370-10 H: Standard Specifications for Construction of Airports
<i>FAA</i>
<i>United States of America</i> |
| 1030 - 1100 | Coffee Break |
| 1100 - 1200 | PANDA-AP & FAARFIELD 2.0
<i>FAA</i>
<i>United States of America</i> |
| 1200 - 1230 | Pavement Thickness Design - FAARFIELD with Design Example
<i>FAA</i>
<i>United States of America</i> |
| 1230 - 1330 | Lunch |

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Day 1	Wednesday, 28 August 2019
1330 - 1500	Pavement Thickness Design - FAARFIELD with Design Example (continued) <i>FAA</i> <i>United States of America</i>
1500 - 1530	Coffee Break
1530 - 1630	Questions/Discussions
1630	End of Day One

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PROGRAMME

Day 2

Thursday, 29 August 2019

0900 - 0915

Welcome Address

Fwa Tien Fang
Committee Co-Chairman and Technical Programme Chairman
Professor, Centre for Transportation Research,
Department of Civil and Environmental Engineering,
National University of Singapore (NUS)
Singapore

0915 - 1015

Keynote Address

Navneet Garg
Programme Manager, NAPMRC
FAA
United States of America

1015 - 1045

Coffee Break

1045 - 1130

Latest Initiative by ICAO to Upgrade its Airfield Pavement Rating system

Cyril Fabre
Head of Airfield Pavement & EADS
Airbus
France

1130 - 1215

Cement Treated Base

George Nowak
Deputy Practice Leader – Airports
Hatch
Canada

1215 - 1330

Lunch

1330 - 1430

Provisions to Accommodate New Generation Aircraft

Ong Chew Sze
Senior Manager, Changi East & Underground Space Planning
Changi Airport Group (Singapore) Pte Ltd
Singapore

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Day 2	Thursday, 29 August 2019
1430 - 1500	Designing Airport Terminals – An Architect's Perspective <i>April Yang</i> Architect <i>April Yang Design Studio</i> Taiwan
1500 - 1530	Renaming Taxiways at Changi Airport <i>Ong Chew Sze</i> Senior Manager, Changi East & Underground Space Planning Changi Airport Group (Singapore) Pte Ltd Singapore
1530 - 1600	High Speed 3D-based Texture Measurement of Runway Pavements: A Safety-related Parameter <i>Kars Drenth</i> Specialist Consultant Samwoh Innovation Centre Pte Ltd Singapore
1600 - 1630	The Economics of Rapid Strength Concrete Pavement: Case Studies <i>Eric P. Bescher</i> Professor, Department of Materials Science and Engineering University of California Los Angeles United States of America
1630 - 1730	Networking Reception
1730	End of Day Two

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PROGRAMME

Day 3 **Friday, 30 August 2019**

0900 - 0930 **Semi-Rigid Pavement for Airfield**
Low Boon Hwee
Technical Director
Highway International Pte Ltd
Singapore

0930 - 1030 **Panel Discussion**
Topic: Impacts of New PCR and/or Impacts of New Generation Aircraft

Moderator: *Fwa Tien Fang, Committee Co-Chairman and Technical Programme Chairman, Professor, Centre for Transportation Research, Department of Civil and Environmental Engineering, NUS, Singapore*

Panelists:
Ong Chew Sze, Senior Manager, Changi East & Underground Space Planning
How Choon Onn, Advisor, Changi Airports International Pte Ltd, Singapore
Cyril Fabre, Head of Airfield Pavement & EADS, Airbus, France
David Brill, Programme Manager, Airport Technology Research and Development, FAA, United States of America

1030 - 1100 Coffee Break

1100 - 1130 **The State of Art on Soil Stabilization Technology for Pavement Related Regulations**
Dave, Ta Teh Chang
Distinguished Professor
Department of Civil Engineering, Chung Yuan Christian University
Taiwan

1130 - 1200 **Advances in Bitumen Technology for Airfield Asphalt Pavements**
Guwe Yong Khoon Vincent
Senior Application Specialist
Shell Bitumen
Netherlands/ England

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Day 3 **Friday, 30 August 2019**

- 1200 - 1230 **Early Damage of Asphalt Pavement Repairs in Airport**
Chu Longjia
School of Highway
Chang'an University
China
- Han Sen*
Professor
Director, Pavement Research Center
Chang'an University
China
- 1230 - 1245 **Closing Remarks**
Fwa Tien Fang
Committee Co-Chairman and Technical Programme Chairman
Professor, Centre for Transportation Research,
Department of Civil and Environmental Engineering,
NUS
Singapore
- 1245 - 1400 Lunch
- 1400 - 1630 **Technical Visit – Changi East**
- 1630 **End of Symposium**

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