I would like to invite you to join 40 other major airport operators to attend the Airfield Engineering & Maintenance Summit 2014, taking place on the 25-28 March 2014 in Singapore. This Summit is Supported by the Association of Consulting Engineers Singapore.

At the Summit, you will be hearing airport case studies on:

- Rehabilitating Old Airfield Pavements
- Parallel Runway Construction & Maintenance
- Runway Grooving
- Completing Runway overlay projects under tight project schedules
- Asphalt & Concrete Airfield Pavement Maintenance
- Runway Friction Assessment
- Maintaining pavements which are subjected to significant over loading
- Application of latest airfield engineering techniques & technologies
- Maximizing shelf-life and sustainability of airfield pavements
- Pavement Inspection & Restoration Works

Speaker Faculty Includes:

- Girish Reesaul, Chief Principal Engineer, Gatwick Airport
- PP Singh, Associate Vice President Operations, Delhi International Airport
- James Cook, Head of Airfield Pavement Section, Ministry of Defence UK
- Thomas Yager, Distinguished Research Associate, NASA
- Peter Chambers, Group Head Asset Care, Dublin Airport Authority
- Kwak Pyung Jin, Deputy General Manager, R&D, Korea Airports Corporation

To enquire about information on the agenda & registration process:

- Email enquiry@equip-global.com
- Visit the summit website (hyperlink to http://www.equip-global.com/airfield-pavement-engineering-amp-maintenance-summit)
- Call +65 63760908

I am looking forward to welcoming you in March

Steven Tan

Project Manager – Infrastructure

Equip Global

P.S. Attend this summit in teams! Register 5 or more delegates from the same organization to enjoy extra discounts! Don’t miss it!
Global airport operators, airlines and aviation authorities to gather at the premier airfield engineering and asset maintenance summit in Singapore!

2014 FACULTY SPEAKERS INCLUDE:

John Cook, Head of Airfield Pavement Section, Ministry of Defence UK
James Wood, Asset Manager, Airfields & Civics, MAG Airports

David Stewart, Head of Airports, IATA
PP Singh, Associate Vice President, Operations, Delhi International Airport

Derek Hendry, Construction Director, Gatwick Airport
Thomas J Yang, Distinguished Research Associate, NASA

Kwak Pyung-jin, Deputy General Manager, R&D Centre, Korea Airports Corporation
Peter Chambers, Group Head Asset Care, Dublin Airport Authority

Suresh Raghupatruni, Engineering & Maintenance Manager, Bangalore International Airport

See Page 2 for Full Speaker Lineup

KEY SUMMIT HIGHLIGHTS

CASE STUDIES
Hear from Dublin International Airport, Bangalore International Airport, Korean Airports Corporation and Bob Hope Airport amongst other leading airports share their latest experiences on how to maintain and extend the shelf life of various types of airfield pavements.

BEST PRACTICES
Gatwick Airport, Delhi International Airport, MAG Airports and Riga International Airport amongst other leading airports will share best practices from recent runway resurfacing, airfield pavement overlay & construction projects.

INTERACTIVE DISCUSSIONS
Join exclusive panel & roundtable discussions featuring Airports & International Regulators as they share real life perspectives on hot topics such as runway grooving, pavement material selection and parallel runway engineering & maintenance.

DETAILED PRESENTATIONS
Gain insights from industry experts on how you can overcome key airfield engineering & asset maintenance challenges including asphalt pavement maintenance, FOD prevention and reduction, airfield pavements rehabilitation using PCI data, and maintaining airport operational efficiency during airfield expansion and maintenance works.

IN-DEPTH WORKSHOPS
Attend the 4 Expert-Led Workshops to grasp the nuts and bolts of airfield engineering & pavement management

PLUS!

4 separately bookable workshops on 25 & 28 March 2014

WORKSHOP A Developing an efficient pavement maintenance, rehabilitation & management system
WORKSHOP B Prioritization and Determination of Restoration Works – Inspection & Maintenance
WORKSHOP C NASA Runway Friction Testing & Measurement – Latest Updates & Strategies
WORKSHOP D Construction & Maintenance of Grooved Runway Surfaces

*See page 5 & 6 for more details

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OTHER EXPERT SPEAKERS INCLUDE:

Olufemi Odunbaku
Airport Operations Supervisor, Bob Hope International Airport

Girish Reesaul
Chief Principal Engineer, Gatwick Airport

H Pulla
Deputy General Manager, Operations, Airports Authority of India

Carl Fergusson
Aviation Director, Colas

Greg White
Technical Manager, Airport at Fulton Hogan

Mural Veradarajan
DGM Planning & Development, Mumbai International Airport

Jo Lary
President, Paveurope Consultants Inc

Iwandaar Wiyamatko
Technical Director, URS Infrastructure & Environment

Dr. Gary Chai
Senior Research Fellow, Griffith School of Engineering

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Head of Pavement – Principal Engineer, Boeing

Robert Cooke
Head of Aerodrome Operations, Birmingham Airport

Amund Wong
Senior Manager, Civil & Utilities, Airport Authority Of Hong Kong

OVER 8 HOURS OF NETWORKING OPPORTUNITIES WITH AIRPORT OPERATORS, AIRLINES, AVIATION AUTHORITIES & REGULATORS

Special Discount for Team Bookings! See Page 8 for more details

5 KEY BENEFITS OF ATTENDING AIRFIELD ENGINEERING & MAINTENANCE SUMMIT

1. Track recent & upcoming projects, ongoing airfield engineering & maintenance updates and hear practical information and experiences of actual case studies from airport operators globally.

2. Wealth of Experience – Hear from 20+ renowned experts who have worked on hundreds of airfield rehabilitation and maintenance projects globally such as the Manchester Runway 1 Resurfacing Project, London Southend Rehabilitation Project and Person International Airport Construction Project.

3. Learn practical tips and know-hows on runway friction assessment, pavement inspection and condition management, runway grooving and pavement rehabilitation to ensure the highest airfield management quality.

4. Gain practical insights on best practice BBA ungrooved, asphalt and cement pavement engineering & maintenance, material selection, ACN-PCN system, PCI data usage, ICAO guidelines and runway overlay amongst other key topics you are concerned with.

5. Hear and witness the latest technological innovation in airfield lighting & signage, FOD detection, artificial intelligence and drainage amongst other technologies which will help you improve your airfield engineering & asset maintenance operations.

“Airfield Engineering & Maintenance Summit 2014 is filled with practical project case studies and interactive discussions among industry experts. It is a great platform to hear about the latest industry trends that impact what we do on a daily basis.”

- Kwak Pyung-jin, Deputy General Manager, R&D Center, Korea Airports Corporation

“Airfield Engineering & Maintenance Summit 2014 will provide us with an extraordinary opportunity to network with global experts in the field. A must-attend!”

- Thomas J Yager, Distinguished Research Associate, NASA

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SPLIT BY JOB FUNCTIONS

- Engineering & Development: 21%
- Facilities Management: 14%
- Assets & Civil: 12%
- Airside Operations: 10%
- Operations: 8%
- Airfield Maintenance: 8%
- Technical Services: 5%

SPLIT BY INDUSTRIES

- Airports: 25%
- Airlines: 20%
- Aviation Authorities: 15%
- Regulators & Associations: 10%
- Service Providers: 10%
SUMMIT DAY 1
Wednesday, 26 March 2014

8:15am Registration and Welcome Coffee

8:40am Welcome Address by Chairman

8:50am Airport Authority of India Case Study:
Maintaining airport operational efficiency whilst coping with demand for runway expansions, upgrades and refurbishments
- Overcoming traffic congestion challenges during construction & maintenance works
- Effective planning to minimize disruptions to airport operations
- Investigating proven cost and schedule planning blueprints
- Contingency planning for airfield expansion and rehabilitation delays
- Workforce planning to upgrade operational efficiency
- Phased Runway Maintenance Projects – minimizing the number of days a runway would be closed

H. Pulla, Deputy General Manager, Operations, Airports Authority of India

9:30am Ministry of Defence UK Case Study:
Maintaining the shelf life and sustainability of airfield pavements – Asset Integrity management
- Preventing cracks or tarmac damages effectively
- Cost-effective airfield pavement maintenance and sustainability
- Optimizing the functional and structural management of airfield pavements
- Coping with increased aircraft tire pressures from new aircraft types
- Optimizing costs for pavement repair and expansion projects
- Improving pavement performance using asphaltic materials
- Maintaining in-pavement components such as drainage, airfield lighting and utilities

John Cook, Head of Airfield Pavement Section, Ministry of Defence UK

10:10am Mumbai International Airport Case Study:
Exploring Planning Approaches to Capex Expansion and Airfield Renewal
- Balancing cost and life cycle implications between inherited maintenance and complete rebuild strategies
- Rearseating design criteria to produce pavements better suited to modern aircraft
- The planning - analysis (cost benefits) staging and phasing of the work
- Identification and securing resources (human and capital) to deliver, partnering with the airlines, regulators and local community, effectively communicating throughout the process
- Maximising pavement life-cycles - evaluating construction methods and runway materials
- In terms of cost, performance, life, style and speed of construction
- Planning and executing finnancial and operationally efficient runway replacement projects
- Maintaining safety levels and delivering the targeted revenue stream

Murali Varadarajan, Executive Assistant to Chairman & Deputy General Manager, Mumbai International Airport

10:50am Morning tea & Networking Break

11:10am MAG Airports Case Study
Maintaining and rehabilitating airfield pavements with PCI data
- PCI assessment conduct best practices
- Weighing PCI to measure pavement conditions and evaluate pavement integrity
- Using PCI data to define major rehabilitation projects
- Planning for in-building preventive and stop-gap maintenance requirements with PCI data
- Project definition process and components – how you leverage PCI inspection data to maintain and improve pavement infrastructure

James Wood, Assets Manager – Airfields and Civil, MAG Airports

11:50am Dublin Airport Authority Case Study
Rehabilitating & maintaining airfield pavements – choosing the right fix
- Case study of airfield maintenance using PCI surveys and FAD maps
- This porus fiction course covers and its impact on airfield pavement maintenance
- What steps comprise a sound rehabilitation strategy development process
- Review of pavement deterioration factors
- Going beyond “surface views” – pavement diagnosis
- Rehabilitating overlays over cracked and heavily stressed pavements
- Joint/crack maintenance and resurfacing

Peter Chambers, Group Head, Asset Care, Dublin Airport Authority

12:30pm Lunch and networking break

1:30pm Gatwick Airport Case Study:
Airfield Runway & Taxiway Resurfacing and Overlay Design – Best practice strategies and techniques
- Planning the resurfacing operations
- Comparing the pros and cons of various resurfacing and overlay design options
- Best practice repairing of cracks on surface
- Resurfacing techniques for asphalt concrete, asphalt and concrete surfaces


2:10pm Korea Airports Corporation Case Study
Concrete pavement design, construction and maintenance for airports
- Latest methodologies for selecting representative stress in concrete pavements
- Best practice concrete pavement evaluation process
- Stabilized and Drivable base – design and construction
- Joint and crack sealing and repair for concrete pavements
- ACN – PCN system determination for airfield pavements

Pyung-Jin Kwak, Deputy General Manager, R&D, Korea Airports Corporation

2:50pm Delhi International Airport Case Study:
Best Practice Management of Airfield Operations and Safety aspects during construction works
- Overcoming challenges to airport ramp & runway debris control
- FOD control and reduction – key methodologies
- Closure of Areas and Construction vehicle movements
- Best practice training of airfield construction personnel to work in an operating environment
- Evaluating Notams, Safety Assessments & SMS
- Reviewing ICAO guidelines for airfield management
- Case study of construction of IGI Terminal 3

PP Singh, Associate Vice President – Operations, Delhi International Airport & Vice Chair, AGI World Safety & Technical Committee

3:30pm Afternoon tea and networking break

3:50pm NASA Updates
Runway Friction Assessment and Maintenance for Airports – Core Processes and Key Considerations
- Improving pavement texture and friction performance
- Improving aircraft ground handling performance
- Emphasising on interpreting results and maintenance actions
- Outlining the detailed friction evaluation issues for airports
- Evaluating the impact of different surfacing on runway friction
- Assessing the impact of different equipment and techniques for friction removal on runway friction
- Comparing runway friction based on the variation in pavement materials
- Analysing the quality of data gathered to make valid assessment

Professor Thomas J Yager, Distinguished Research Associate, NASA

4:30pm Bob Hope Airport Case Study
Best practice airfield management & maintenance strategies to comply with regulations and mitigate data caused by pavement deterioration
- Condition assessment of existing pavements and finding solutions
- Runway debris control management - controlling the problem of FOD
- Best practice Part 139 and CFR Part 1542 inspections
- Review construction plans to ensure compliance with FAR Part 139/ associated advisory circulars, FAR Part 77 and TSS Part
- Reviewing Part 139 differences to ensure paved, unpaved, non-movement areas and safety area discrepancies are repaired
- Formulating an effective pavement management plan
- Inspecting and fixing critical pavement deterioration areas based on PMP data

Claude Ondabaku, Airport Operations Supervisor, Bob Hope Airport

5:10pm Airfield Pavement Management & Evaluation Best Practices – Experience Sharing
- Complying with FAA requirements for pavement management programs
- Pavement distress identification and repair recommendations
- Best practice pavement evaluation techniques
- Implementing effective pavement management system
- Overcoming pavement design issues from past experiences
- Case study sharing from having experience of over 50 airport pavement management implementation projects

5:50pm Closing Address by Chairman

6:00pm End of Summit Day One
Roundtable Discussions: Airfield Pavement Material Selection Best Practices

8:50am IATA ADDRESS
Upgrading the quality of airport operations through best practice airfield engineering and maintenance
- Lessons learned from engineering and construction of past large airfield infrastructure projects
- Planning and operations of large scale maintenance and rehabilitation projects
- Runway capacity improvement, planning and site selection
- Best practice partnership and communication between airlines and airports in upgrading high quality of airport operations

David Stewart, Head of Airport Development, IATA

9:30am Riga International Airport Case Study
Runway surface renovation and maintenance to ensure high quality of runway operations
- Renovating runway surfaces, improving airstrips and security areas of runway ends
- Best practice planning of the construction of new taxilanes
- Reconstruction of runway and airfield drainage systems – designing state of the art systems
- Upgrading and selecting runway lighting systems to provide effective airfield lighting and signage under all conditions
- Construction of new drainage and waste collection areas amongst other facilities

Andis Darmiris, Vice President Operations, Riga International Airport

10:00am NASA Updates
Airport Runway Grooving Project Case Studies – Construction & Maintenance
- Runway grooving best practices to increase friction for aircraft when landing
- Increasing drainage for runways during rain events
- Operational Planning for the construction and maintenance of grooved runways
- Resurfacing and Realignment of the runway crown
- Installation of new runway edge lighting and electrical wiring replacement for grooved runways

Professor Thomas J Yager, Distinguished Research Associate, NASA

10:50am Morning tea & Networking Break

11:10am Panel Discussion: Assessing limitations of grooved runways – making a sound evaluation on whether to groove
- Understanding the pros and cons of grooved runways
- Factors to consider while planning and deciding on grooved runways
- Assessing issues for grooved surfaces
- Dynamic hydraulics – grooved versus un-grooved runways
- Increasing traction and efficient drainage using grooved runways – are there alternatives?

Panelists:
- Girish Roosaeil, Chief Principal Engineer, Gatwick Airport
- Professor Thomas J Yager, Distinguished Research Associate, NASA
- Pyong-Jin Kwak, Deputy General Manager, R&D, Korea Airports Corporation

11:50am Bangalore International Airport Case Study
In-flight Airfield Maintenance to ensure airside safety and high level of operation
- Evaluating the use of integrated airfield maintenance system to raise maintenance standards
- Assessing planned and unplanned maintenance activities – best practice management
- Planning requirements of maintenance to improve integrity of airfield pavements
- Planning independent activities and updating in RMS to show behaviour property of any airfield expenses including runways, taxiways, aprons and RET
- FOD management & prevention to ensure airside safety

Suresh Raghupatrani, Engineering & Maintenance Manager, Bangalore International Airport

12:30pm Manchester Airport Case Study: Evaluating the use of ungrooved BBA surface on the Manchester Airport Runway 1 rehabilitation project

In this joint presentation, we will look at how BBA ungrooved was successfully introduced and installed in a recent landmark BMU+Mill-runway resurfacing project at Manchester Airport. Key discussion areas will include:
- Demonstrating the high stability, performance and wet friction characteristics of ungrooved BBA surfaces
- Using BBA as opposed to the more traditional Marshall asphalt – pros and cons
- Surface characteristics and key considerations when using ungrooved BBA Surfaces
- Does your runway really need grooving and how can ungrooved BBA provide the great fiction characteristics that your airfield needs?

Iwawanda Widyatmoko, Technical Director, URS Infrastructure & Environment
James Wood, Asset Manager – Airfields and Civil, MAG Airports

1:00pm Lunch and networking break

2:10pm Crack Prevention for PCC & PCC-Asphalt Pavements
- PCC Pavement Design Best Practices
- PCC-Asphalt Interface Design for crack inhibition
- Dress Tarmac tabletop expansion joint design and materials specification development
- Pavement design and analysis based on ICAO guidelines
- Case study Analysis – Inclusive of Rehabilitation of Dushamo Airport, Tajikistan, Khajand Airport Uzbekistan, Pavement Design & Construction in Middle East & India Airport Projects

Ramesh Chand Vishwakarma, Design Manager & Pavement Expert, Parsons

2:50pm Hyderabad International Airport Case Study
Innovations & Technology Implementation to ensure high standards of airfield operations
- Incorporating innovations in the planning of airside operations to raise airfield management standards
- Practical utilization of new technologies to improve airfield operations and maintenance
- Innovations in airside infrastructure planning
- Designing and installing airfield lighting, GS and other systems to better enhance airside operations

N. Venkateshappally, Associate General Manager – Airside Operations & Planning, Hyderabad International Airport

3:30pm Afternoon tea and networking break

3:50pm Modelling of design reliability of flexible airfield pavements using mechanistic approach
- Most pavement design input parameters are stochastic in nature, pavement thickness design remains deterministic, with the designer assigning a single value of each parameter to represent the aggregate of all variable values over the design life.
- A case study was carried out to examine the design reliability of airfield pavement structures by analyzing various design input parameters using the Airport Pavement Design System (APDSS) software.
- Through Monte Carlo simulations, the reliability of the pavement thickness design was demonstrated to be at the 92% reliability to 95% CBR value.
- The methodology could be incorporated into the mechanistic-empirical design procedure to achieve model engineering of thickness design reliability. Further enhancement in the modeling of pavement thickness reliability could be achieved by developing more complex models for the various design input parameters.

Dr. Gary Chai, Senior Research Fellow, Griffith School of Engineering
Greg White, Airports Technical Manager, Fulton Hogan

4:30pm Parallel Runway Design, Construction & Maintenance
- Site preparation – includes clearing, construction of access roads, significant drainage works and modifications to the airfield system that necessitated its temporary closure.
- Dredging and realignment works for parallel runway construction.
- Construction of the pavements and airfield includes pushing out the excess sand and surfacing, constructing pavements and airfield, then commissioning and commencing operations.
- Assessing the risk and impacts of parallel runway construction.
- Parallel runway maintenance best practices.
- Parallel runway monitoring & Surface Management

Panelists:
- N. Venkateshappally, Associate General Manager – Airside Operations & Planning, Hyderabad International Airport
- Girish Roosaeil, Chief Principal Engineer, Gatwick Airport
- James Wood, Asset Manager – Airfields and Civil, MAG Airports

5:10pm Airfield Pavement Material Selection Best Practices

In this session, participants will come together to discuss their experiences and perspectives about pavement material selection, a pertinent issue in the industry. The first half of the session will see participants broken into small groups to brainstorm solutions about the following focus areas. In the second half of the session, participants will highlight their ideas, have their queries answered and also engage in a fruitful discussion and coming up with practical solutions.

- Analysis of various asphalt, concrete, and alternative pavement materials
- Comparing the durability and cost of various dry materials for overnight repairs
- Evaluating the long-term performance of different pavement materials for airfields
- Examining the performance of recycling materials for use in the sub-layers and surface layers
- Sharing experiences of using innovative pavement materials from Airports

Moderated by Summit Chairman
WORKSHOP A

9.00am – 12.00pm (including morning tea break)

Developing an efficient pavement maintenance, rehabilitation & management system

An optimum pavement management is fundamental in ensuring that the pavement asset base remains fit for purpose throughout its operational life so that safety levels are kept to the highest standards and the targeted revenue stream of the business is achieved. This workshop will provide you with practical know-how and tips of planning and executing the evaluation, maintenance and rehabilitation of airfield pavements of different materials including asphalt, asphalt-concrete and concrete amongst others. It will cover issues critical to the condition assessment of existing pavements, including structural evaluation and runway friction monitoring as well as visual surface condition assessment. The use of both intrusive and non-destructive testing techniques will be discussed and solutions ranging from routine/regular maintenance to major maintenance/rehabilitation will be covered.

After attending this workshop, you will be able to effectively:
- What makes a good pavement management system? Planned Maintenance & Rehabilitation that works
- Perform pavement condition assessment effectively
- Garner tips and techniques for structural evaluation, runway friction monitoring and surface condition assessment
- Understand best-practice methodologies of overlay and resurfacing of airfield pavements
- Plan maintenance and rehabilitation works with minimal disruption to airport operations
- Understand the characteristics of various pavement materials and develop maintenance strategies accordingly

Girish Reesaul, Chief Principal Engineer, Gatwick Airport

About your Workshop Leader:
Girish Reesaul is the Chief Principal Engineer at Gatwick Airport. He was formerly the Technical Leader for Airside Pavements & Infrastructure for BAA covering seven airports that included Heathrow Airport and Gatwick Airport.

A chartered engineer and environmentalist, Girish is a fellow of a number of world-renowned professional bodies such as the American Society of Engineers, the UK Institution of Civil Engineers and the UK Institute of Commercial Management. He has extensive knowledge of many worldwide standards, regularly lectures to an international audience on various aspects of airport operations and safety. He is the holder of numerous prestigious awards that include the Shell Centenary Scholarship Award.

Girish heads a team of Principal Engineers and Design Manager at the Gatwick Airport and is responsible for providing technical direction to the airport to enable safe operations and business continuity. Having worked for over 10 years in the construction industry he spent the earlier part of his working life in design and project management working for a major global Design and Project Management Consultancy both in the UK and overseas.

He worked progressively into the aviation and airport sector by initially working on major infrastructure projects in Harbours and Ports, Oil and Gas storage, Water and Wastewater. His airport experience encompasses specialist areas like master planning, aerodrome design, pavement engineering, virtual simulation, asset management, revetment planning, capital investment planning, contract management and the maintenance of a broad range of airport infrastructure within the building and civil engineering arena.

WORKSHOP B

1.00pm – 4.00pm (including afternoon tea break)

Prioritisation and Determination of Restoration Works - Inspection and Maintenance

Airfield restoration works are vital to maintain the integrity and operations of airfields, particularly for runways and taxiways that have reached the end of their lifecycle. Improvements in rural and remote areas will significantly improve reliability and safety. This is absolutely critical to the overall efficiency of airfield operations.

After attending this workshop, you will be able to effectively:
- Review airfield pavement distresses and maintenance procedures
- Determine inspection procedures having regard to ICAO regulations and guidance
- Prioritise restoration works using standard pavement management procedures including the use of life extension options
- Review site investigations for design and airfield restoration works with case study examples
- Analyse material specifications and developments including recycling techniques
- Developing the construction schedule to minimize risk of weather impacts on flights

John Cook, Head of Airfield Pavement Section, Ministry of Defence UK

About your Workshop Leader:
John has been specialising in airfield pavement engineering for over 34 years. For the last 20 years he has been in his present post as Head of Airfield Pavements for the UK MOD's Defence Estates, leading a small team responsible for airfield maintenance inspections and also technical standards for design, construction and maintenance of airfield pavements on MOD airfields. For the last 14 years he has been Chairman of a European CEN Committee (European de Normalisation) Airfield Pavement Working Group (within Technical Committee 227) concerned with harmonization of airfield pavement material standards in Europe. Since 2011, he has been a member of the Pavement Sub-group of the ICAO (International Civil Aviation Organization) Aerodrome Operations and Services Working Group responsible for producing recommendations for improving the ICAO ACN/PCN lead classification system. Since 1998, he has also been a member of the NATO Airfield Pavements WG.

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WORKSHOP C

9.00am – 12.00pm (including morning tea break)

NASA Runway Friction Testing and Measurement – Latest Updates & Strategies

With millions of aircrafts taking off and touching down at airports globally every day, it is critical and essential to ensure that your runway is up to the job and will not be the cause of an incident due to poor friction. Besides having a peace of mind, it is also an international requirement to regulate your runway friction testing and measurement procedures to ensure runway safety remains at the highest level.

After attending this workshop, you will be able to effectively:
- Define the relationship between tire friction performance and runway/roadway pavement texture
- Describe current pavement friction measuring techniques and devices
- Understand information provided on CFME’s available for runway and roadway evaluations
- Review various aircraft/ground vehicle test programs
- Understand NASA involvement in tire/pavement friction performance and test facilities
- Determine future R & D efforts recommended for NASA, FAA, CAA, ICAO, ASTM and FHWA
- A review of ASTM F17 Committee, FAA & ICAO activities
- Ground Vehicle Friction Classification Tables
- Recent developments in the FAA sponsored TALPAARC runway condition reporting efforts
- Meet international regulatory requirements with your testing procedures

Also Collect at the Workshop:
- CDs of power point charts and videos from the workshop
- Copies of Reference reports and data compilations
- Contact sources to improve runway pavement friction performance

Professor Thomas J Yager, Distinguished Research Associate, NASA

About Your Workshop Leader:

Thomas J. Yager is a retired senior research engineer at the National Aeronautics and Space Administration’s (NASA) Langley Research Centre in Hampton, Virginia. He earned his bachelor's degree in engineering science from the University of Portland in Portland, Oregon in June 1963, two weeks prior to starting work at NASA Langley. His NASA career has involved many evaluations of aircraft landing gear systems in tests at the Aircraft Landing Dynamics Facility and a variety of instrumented aircraft ground handling performance studies. He was the NASA Program Manager for the Joint Winter Runway Friction Measurement Program. He has authored or co-authored over 140 technical reports, articles and presentations describing the results of his studies. Tom has been recently given the title of Distinguished Research Associate in order to complete two research reports.

WORKSHOP D

1.00pm – 4.00pm (including afternoon tea break)

Constructing and Maintaining Grooved Runway Surfaces

Grooved runway surfaces drastically reduce all types of skids on wet or flooded runways and provide positive nose-wheel steering during landing roll-out. Grooved surfaces also prevent the onset of drift and weedharrowing. Overall ground handling and stopping characteristics on grooved surfaces are significantly better than that of ungrooved surfaces. Grooved surfaces also prevent the onset of drift at touchdown in flooded areas due to high cornering forces and increasingly airports are looking at this essential option. However, is runway grooving the best option, or is there an alternative that will serve your needs better than runway grooving?

After attending this workshop, you will be able to effectively:
- Understand factors to consider while planning and deciding on grooved runways
- Familiarizing with testing procedures for grooved surfaces
- Operationally Plan for the construction and maintenance of grooved runways
- Develop maintenance strategies and techniques for grooved runways
- Learn from best practice case studies to avoid common mistakes
- Compare the practical pros and cons between grooved and ungrooved runways - should you enforce grooving?
- Evaluate the merits of the use of BBA ungrooved for your runways

James Wood, Assets Manager – Airfields and Civil, MAG Airports

About your Workshop Leader:

James has spent most of his career working in the highways sector. He joined Manchester Airport as Head of External Engineering in September 2008. As the Head of External Engineering, his role encompassed the ongoing management and maintenance of all the airside and landside external assets at Manchester Airport. These include the runways, taxiways and stands, approach, runway and airfield lighting, utilities infrastructure (HV, MV, gas, water, drainage), structures (i.e. 3 x Multi-storey car-parks, Engine Test Bay, 2 No road tunnels) and landside infrastructure (roads car-parks etc). James’s team is also responsible for the delivery of the winter operations service at MA. James leads a team of 62 staff split into 3 main disciplines - Airfield Systems, Airfield Maintenance and Water Service. In addition to his operational duties, James also play a key role in the strategic asset renewals and improvement programme at MA. James is responsible for the strategic and operational management and maintenance of all the airside and landside assets.

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Limited sponsorship opportunities are still available at the Airfield Engineering & Maintenance Summit 2014!

Are you a key vendor struggling to engage directly with key decision makers from the airfield engineering & asset maintenance industry? Are you finding it difficult to differentiate your offering at a time when lots of companies are engaging with the market at the same time? Is your sales team wasting valuable resources chasing potential businesses without getting hold of the right people or finding out what their requirements are?

If the answer to any of the above questions is yes, having a presence at the Airfield Engineering & Maintenance Summit 2014 is the way for you to put this right by engaging with proven buyers and decision makers from the airport operators and aviation authorities at a time when they are actively looking for solutions in this space.

**Why get involved early**

1. Equip Global conferences enforce strict constraints on the number of vendors we have in the room; ensuring the majority of participants are end-users. Only an early confirmation can guarantee your participation.
2. Start the discussion with us early to find out how you can best partner us to ensure your organisation is reflected in the best way.
3. Register early to enjoy our extensive 4 month marketing campaign that reaches out to leading decision makers from across Asia.
4. Reserve your slot on the agenda as we only have limited speaking and panelist slots for contact centre solutions providers.
5. Book the most optimally located exhibition space in the exhibition hall to ensure you are in a prime position.

**How can you get involved?**

Airfield Engineering & Maintenance Summit 2014 is our event, and we take personal interest in ensuring a positive outcome for service providers like you.

Please contact me and my team at +65 63760908 or email enquiry@equip-global.com to discuss how we can tailor our sponsorship packages to suit your business objectives.

**Who should sponsor?**

If you provide any of the following services, then Airfield Engineering & Maintenance Summit 2014 is the ideal platform for you to present your solutions to key prospects and potential clients from airports, aviation authorities and regulators globally.

- Engineering, Contracting, Equipment, Technological or Consulting Solutions in:
  - Airfield Construction & Installation
  - Airfield Project Engineering, Planning & Development
  - Airfield Lighting Systems
  - Asphalt Suppliers
  - Blast Detectors & Acoustic Barriers
  - Cement Suppliers
  - Cost Management Software
  - Drainage & Water Treatment
  - Environmental Services
  - Friction Testing & Measurement
  - Foreign Object Detection
  - Fuel Farm Equipment
  - Geographical Information Systems
  - Geotechnical Testing & Services
  - Hangar System, Design & Construction
  - Maintenance Software
  - Marking & Signage
  - Pavement Design & Servicing
  - Perimeter Fencing
  - Power Supplies & Cabling
  - Project Management & Planning
  - Runway & Taxiway Maintenance
  - Runway Grooving
  - Runway Clearing & Paint Removal
  - Runway, Taxiway & Apron Surfacing/Rehabilitation
  - Snow & Ice Prevention & Clearing
  - Sweeping & Rubber Removal
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