



## 2-day Fire-fighting Foam Workshop conducted by Dr Niall Ramsden (7 – 8 May 2018)

## 18<sup>th</sup> IAFPA Aircraft Rescue & Fire-fighting Conference 2018 (9 – 11 May 2018)

Jointly organised by the Singapore Aviation Academy and International Aviation Fire Protection Association

### 2-day Fire-fighting Foam Workshop conducted by Dr Niall Ramsden

**Date:** 7 – 8 May 2018

**Fee:** S\$1,730

**Dress code:** Smart Casual

#### About the Workshop

The **2-day workshop** is designed to **enhance responders' knowledge in fire-fighting foam, with emphasis on foam development, foam systems design standards and assurance.**

Storage tank foam applications and case studies on Buncefield and Puerto Rico storage tank incidents will also be covered. This workshop includes syndicate exercises and workgroup discussions to complete the learning process.

#### About the Speaker

**Dr Niall Ramsden** combines worldwide practical experience with academic knowledge in the field of specialist Fire Hazard Management. He is the project coordinator of the LASTFIRE Project, an international industry reviewing the risks associated with storage tank fires. Dr Niall sits on the EN and NFPA (USA) Foam Systems standards committees and was a lead author for the Energy Institute's MCOSP Part 19 – Fire Precautions at Petroleum Refineries and Bulk Storage Installations. He has directed the most comprehensive large scale independently run test series of fire performance of new generation C6 fluorosurfactant and Fluorine Free foams for spill and tank fire application for more than 30 years.

### 18<sup>th</sup> IAFPA Aircraft Rescue and Fire-fighting Conference

**Dates:** 9 - 11 May 2018

**Fees:** Industry Delegate: S\$850

Government/Military/IAFPA Member: S\$600

**Dress code: Conference:** Business Suit; **Welcome Reception & Gala dinner:** Smart Casual

The International Aviation Fire Protection Association (IAFPA) Conference is **an annual event that serves as a nexus for knowledge and experience sharing for key personnel in the international Aircraft Rescue and Fire-fighting (ARFF) community.** It serves as a platform for global aviation fire chiefs, executives and industry leaders to share best practices and formulate strategies to manage the challenges posed by the fast-changing aviation landscape.

This year's theme of "**Strengthening Aviation Safety Standards**" provides a holistic review of standard-setting in ARFF training, aircraft and terminal incident management, case studies and best practices in airport emergencies. The World Civil Aviation Fire Chiefs Forum, together with a firefighting foam workshop, will be held in conjunction with the Conference.

#### HIGHLIGHTS

- Participate in interactive panel discussions and an open forum dialogue session on safety standards and developments with industry experts and first responders
- Learn from best practices and case studies on managing airport emergencies and incidents from airports in various regions
- Networking opportunities with leading industry personnel

#### WHO SHOULD ATTEND

This conference is designed exclusively for ARFF executives and airport planners from civil aviation administrations, airport authorities, airport rescue and fire-fighting services and related aviation organisations.

## PROGRAMME SCHEDULE

Programme updated as at 16 April 2018

<b>2-day Fire-fighting Foam Workshop conducted by Dr Niall Ramsden</b>		
<i>Venue: Singapore Aviation Academy</i>		
<b>Time</b>	<b>7 MAY 2018, MONDAY</b>	<b>8 MAY 2018, TUESDAY</b>
0900	<b>Introduction</b> Short Overview to Foam and Foam Terminology Foam Development and how we got to the Current Critical Crossroads	<b>Foam Systems Assurance</b>  Syndicate Exercise
10:30	<b>Morning Tea Break</b>	
11:00	<b>The Cradle to Grave Foam Assurance Protocol</b>  <b>Procurement Specifications Issues</b>	<b>Foam Storage and Compatibility Issues</b>  <b>Proportioning Issues</b>
12:30	<b>Lunch</b>	
13:30	<b>Foam System Design Standards and Worked Examples</b>  Syndicate Exercise	<b>Storage Tank Foam Application – Options and Issues</b>
15:00	<b>Afternoon Tea Break</b>	
15:30	<b>Latest Large Scale Research on New Generation Foams</b>	<b>Storage Tank Incidents Case Studies (Buncefield and Puerto Rico)</b> <ul style="list-style-type: none"> <li>• Q&amp;A Session</li> <li>• Course Feedback</li> </ul>
17:00	<b>End of Day</b>	

## **18<sup>th</sup> IAFPA Aircraft Rescue & Fire-fighting Conference**

*Conference Venue: Singapore Aviation Academy*

### **9 MAY 2018, WEDNESDAY**

14:00	<b>Welcome Tea for World Civil Aviation Fire Chiefs</b> <i>(by-invitation only)</i>	
14:30	<b>World Civil Aviation Fire Chiefs Forum</b> <i>(by-invitation only)</i>  <i>Chaired by Mr Gillies Crichton, Vice Chairman, IAFPA</i>	
19:00	<b>Welcome Reception</b> <i>Venue: Grand Hyatt Singapore 10 Scotts Road, Singapore 228 211</i>	<i>Complimentary transport is provided from the Singapore Aviation Academy and Village Hotel Changi respectively to the Welcome Reception at 6.15pm.</i>
22:30	End of Day	<i>Complimentary transport is provided from Grand Hyatt to Village Hotel Changi.</i>



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<b>10 MAY 2018, THURSDAY</b>	
08:30	Registration
09:00	<b>Welcome Address</b> <i>Mr Cletus Packiam, IAFPA Chairman, Singapore</i>
09:15	<b>Keynote Address</b> <i>Mr John Trew, Founding Chairman, IAFPA</i>
<b>Session I: Setting the Standards</b>	
09:30	<b>Job Fitness Assessment for Fire-fighters</b> <i>Dr Fabian Lim, Associate Professor, Nanyang Technological University, Singapore</i>
10:00	Coffee Break
<b>Session II: Fire-fighting Foams – An Update on the Latest Technology Development</b>	
10:30	<b>C6 Foams vs. Legacy (C8) &amp; Fluorine-Free Foams – What you need to know!</b> <i>Dr Chang Jho, Vice President, Dynax Corporation, United States</i>
11:00	<b>Latest on LASTFIRE Large Scale Testing of New Generation Foams for Spill and Storage Tank Application</b> <i>Dr Niall Ramsden, LASTFIRE coordinator, United Kingdom</i>
11:30	<b>PFAS – “The New Bad Kid on the Block and Getting Worse”</b> <i>Dr Jimmy Seow, Adjunct Associate Professor, Curtin University, Western Australia</i>
12:30	Lunch
13:30	<b>Foam Experts Panel Discussion</b> <i>Chaired by Mr Colin Murray, IAFPA Board Member</i>
15:00	Coffee Break
<b>Session III: Case Studies of Aircraft Accidents</b>	
15:30	<b>Lessons Learned from MH370 and MH17 Tragedies</b> <i>Mr Fuad Sharuji, Crisis Director, Malaysia Airlines, Malaysia</i>
16:00	<b>Case Study on Emirates flight 521</b> <i>Mr Haydn Beynon, Chief Fire Officer and Head of Fire Services, Dubai Airport, United Arab Emirates</i>
16:30	<b>Panel Discussion</b> <i>Chaired by Mr Robert Peasgood, Managing Director, Falck Fire Services UK Limited, United Kingdom</i>



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19:30	<b>Gala Dinner and Awards Ceremony</b> Venue: Hotel Jen Tanglin 1A Cuscaden Road, Singapore 249716	Complimentary transport is provided from the Singapore Aviation Academy and Village Hotel Changi to the Gala Dinner at 6.30pm.
22:30	End of Day	Complimentary transport is provided from Hotel Jen Tanglin to Village Hotel Changi.

<b>11 MAY 2018, FRIDAY</b>		
<b>Session IV: Command Leadership</b>		
09:30	<b>Leadership of the Emergency Services</b> Mr Robert Peasgood, Managing Director, Falck Fire Services UK Limited, United Kingdom	
10:15	<b>ARFF and Airport Terminal Buildings Fire Emergency Management</b> Mr Olayiwola Sokoya-Olayinka, Fire Safety and HSE Consultant/Trainer, Federal Airports Authority of Nigeria, Nigeria	
10:45	Coffee Break	
<b>Session V: Operational Standards</b>		
11:15	<b>Competency-based Training Assessment</b> Mr Peter McMahon, Managing Director, Aviation Rescue Services, Australia	
11:55	<b>No Airport is an Island</b> Mr Brian Day, Experienced International Civil Aviation Search and Rescue Manager, Technical Officer, Consultant and Trainer, Swinburne University of Technology, Australia	
12:30	<b>Commissioning of Breathing Apparatus Simulator</b> Mr Kevin Shum, Director-General, Civil Aviation Authority of Singapore	
13:00	Lunch	
<b>Session VI: Life Safety Standards</b>		
14:00	<b>Fire Prevention and Protection of Airport Terminal Buildings</b> Sir Ken Knight, CBE QFSM, DL Chairman, Government Committee of Inquiry into Grenfell Tower Fire	
14:30	<b>Terminal Fire Safety</b> Mr Stephen Lakin, Head of Fire Safety Improvement and Head of Health and Safety Learning and Development, Heathrow Airport, United Kingdom	



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15:00	Coffee Break
15:30	<b>Panel Discussion</b>
<b>Session VII: ARFF Open Forum Dialogue</b>	
16:00	<b>Advancing Airport Emergency Responses in Today's Fast Changing Airport Environment</b>  <i>Chaired by Mr Cletus Packiam, IAFPA Chairman, Singapore</i>
17:00	<b>Certificate Presentation and Closing Remarks</b>  <i>Mr John Trew, Founding Chairman, IAFPA</i>
17:30	End of Conference

### ABOUT INTERNATIONAL AVIATION FIRE PROTECTION ASSOCIATION

IAFPA was formed in 2000 by a group of airport/municipal fire service professionals and industry specialists as a professional and fraternal association of international airport, municipal, and military fire and emergency services professionals to promote the information exchange, study, and improvement of ARFF and airport facility fire protection.

[www.iafpa.org.uk](http://www.iafpa.org.uk)

### ABOUT SINGAPORE AVIATION ACADEMY

The Singapore Aviation Academy (SAA), established in 1958, is the internationally-recognised training arm of the Civil Aviation Authority of Singapore. It offers a wide range of operational and management programmes that benchmark international standards and best practices to meet the training needs of the global aviation community. SAA is an ICAO Regional Training Centre of Excellence, ICAO Aviation Security Training Centre, ICAO-endorsed Government Safety Inspector Training Centre and ICAO TRAINAIR PLUS Full Member.

[www.saa.com.sg](http://www.saa.com.sg)

Visit Our Event Website: [bit.ly/saaiafpa2018](http://bit.ly/saaiafpa2018)

