Aviation Safety

Making sure the past has a future

Singapore Aviation Safety Seminar

06 Mar 2019

CATHAY PACIFIC

Aviation
Starts with People
Ends with People

#PreventProtectProgress

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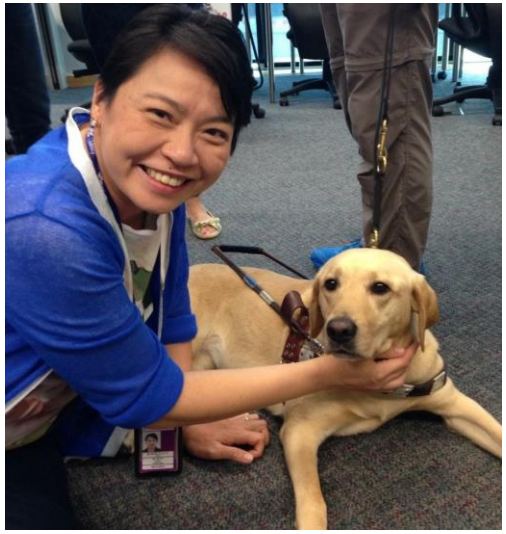
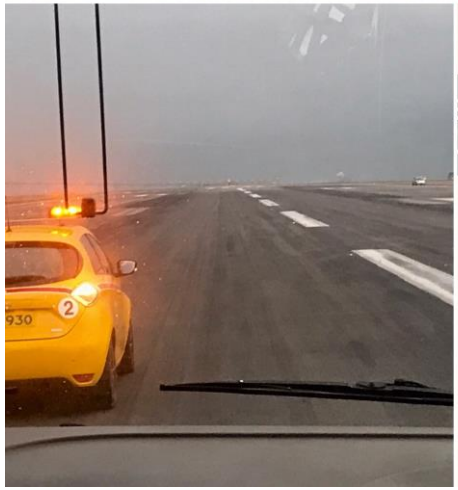
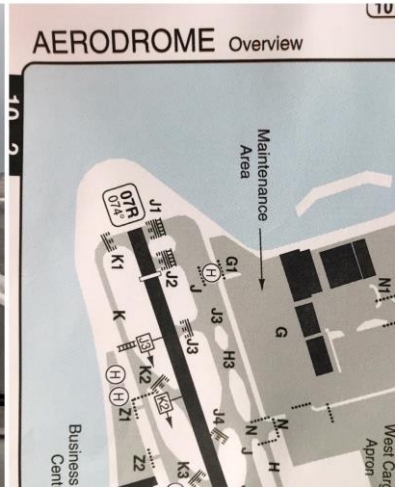


中国民航大学
Catherine Chan




AERODROME Overview
Maintenance Area
07R
074°
J1
J2
J3
J4
K1
K2
K3
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N1
Z1
Z2
Business Cent
West Car Apron

Cabin Operations Safety
ference
IATA

Crisis Response Team

or Accident
gators
actical Exercise

HONG KONG
INTERNATIONAL AIRPORT
32

In times of rapid change , sometimes experience could be your worst enemy

~~J.P Getty~~

Catherine Chan

Understanding VUCA

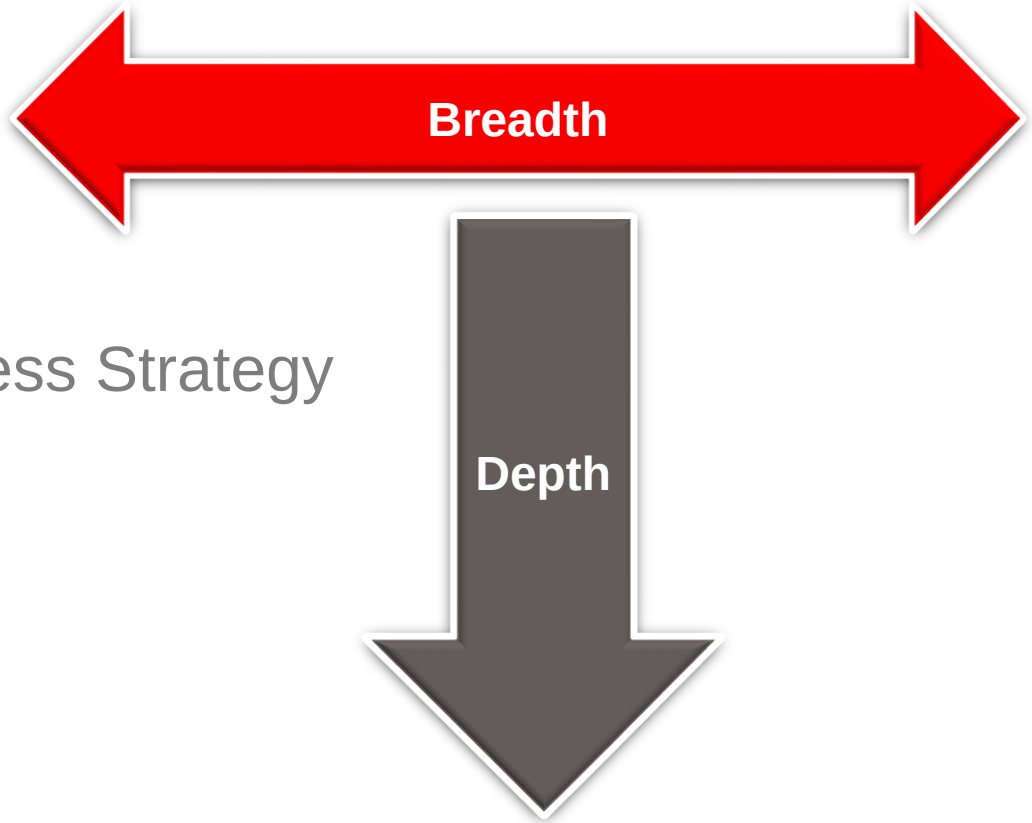
Current & Future State of Aviation Safety

The new norm in aviation safety

- Complexity and changes become constant
- Reduction in resources
- Value = Growth Progress
- Planned strategy and execution

Getting it ‘right’

in cabin safety operations



- Conflicting KPIs / Business Strategy
- Depth vs. Breadth
- Tangible benefits

++ Add Value in order to stay ahead

Seat Design Criteria

Minimize gaps in seats or have a net to prevent PEDs from caught/crushed / fall into mechanism

Specific stowage for PED and personal effects around the seat to be certified for use during taxi, take-off and landing

Transparent stowage(s) to ensure PED not left behind / minimize security issues

Evacuation Slide Design Criteria

Lessons learnt- how fast could we initiate the change and +value ?

Incident / Accident -> Relevant Department
Relevant Department –> Aircraft Design
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SAE Aerospace Standards 100th Anniversary

- First international aerospace standard published in 1917 for interchangeable aeronautic spark plugs

- SAE publishes over 8500 Technical Documents for the aerospace industry:
  - Aerospace Information Reports (AIR)
  - Aerospace Recommended Practices
  - Aerospace Standards (AS)
  - Aerospace Material Specifications (AMS)

- 100th Anniversary Video:
  - http://video.sae.org/12328/ or https://youtu.be/DlaL2LkIU8s

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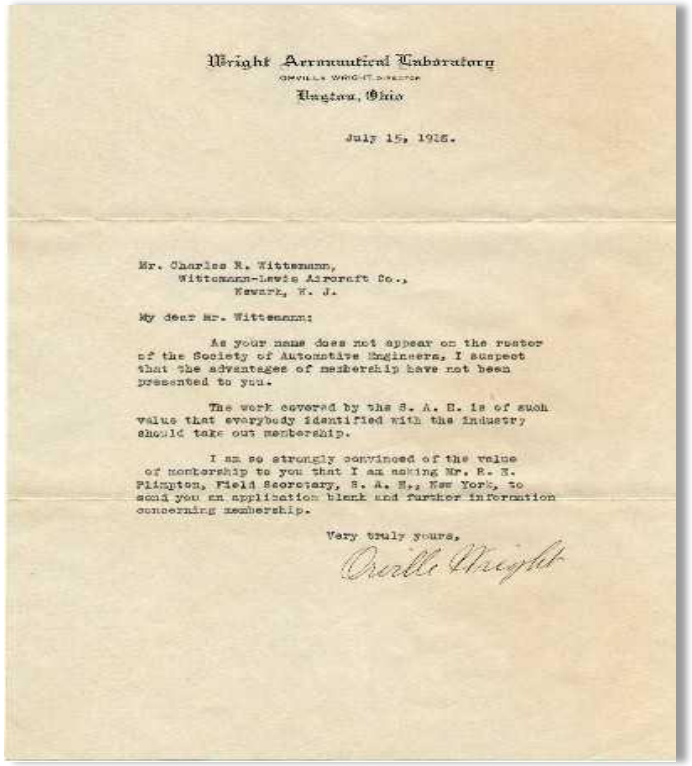
SAE Aerospace Standards History – From 1916



Wright Aeronautical Laboratory
ORVILLE WRIGHT, DIRECTOR
Dayton, Ohio

July 15, 1918.

Mr. Charles M. Wittemann,
Wittemann-Lewis Aircraft Co.,
Newark, N. J.

My dear Mr. Wittemann:

As your name does not appear on the roster of the Society of Automotive Engineers, I suspect that the advantages of membership have not been presented to you.

The work covered by the S. A. E. is of such value that everybody identified with the industry should take out membership.

I am so strongly convinced of the value of membership to you that I am asking Mr. R. H. Plimpton, Field Secretary, S. A. E., New York, to send you an application blank and further information concerning membership.

Very truly yours,

Orville Wright

The Wright Brothers

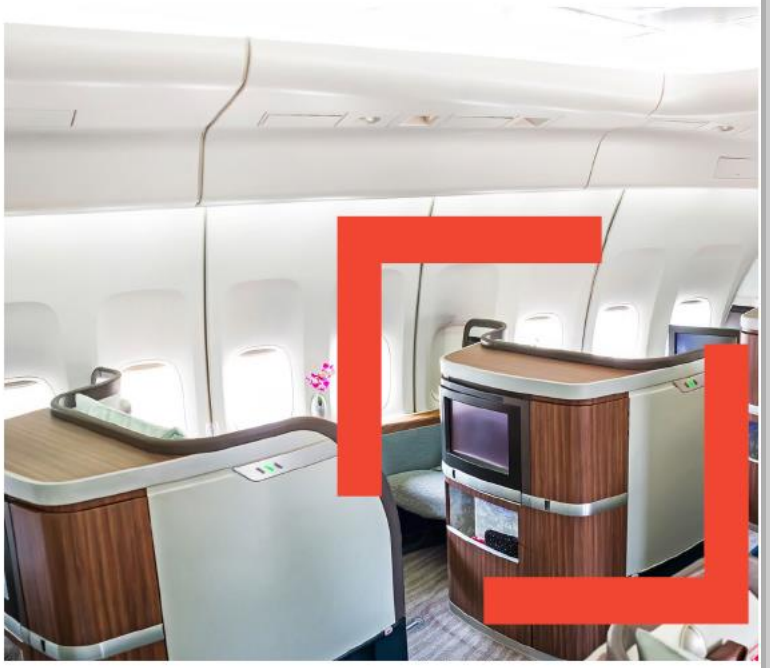
"The work covered by the SAE is of such value that everybody identified with the industry should take out membership."
Orville Wright, 1918

BPG

IATA

Best practices guide

Cabin interior retrofits and entry into service program



February 2019

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SARPS

IATA

IOSA Standards Manual

Effective 1 September 2018

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SAE INTERNATIONAL

AEROSPACE STANDARD

AS1426™	REV. C
Issued	1980-08
Noncurrent	2005-08
Cancelled	2012-07
Revised	Proposed Draft 2017-04-25
Superseding AS1426B	

Standard Galley System Specification Part I, Performance, Design, Development

Minimum Performance Standards for Galleys in Transport Aircraft

RATIONALE

This document was reaffirmed in 2016, superseding the previously cancelled AS1426B.

SAE International

The standard you walk past,
is the standard you accept
-David Lindsay Morrison

Making sure the past has a future