



# *Seminar and Facility Tour*

**When:** February 23, 2015, from 6:00-8:30 pm

**Where:** Air Canada's North Side Hangar, 6001 Grant McConachie Way, Richmond, B.C.  
(next to the Sea Island Canada Line Station)

*We'll start with a seminar titled:*

## *Defects in Aircraft Design and Materials*

*Presented by: Larry Rinek, SAE International Speakers Bureau Guest Speaker*

**Abstract:** Why have preventable mishaps in aircraft occurred (which are not the fault of pilots), resulting in loss of life and property? How are aircraft put into service with potentially fatal control and stability issues? Many of these incidents are directly attributed to human error and negligence in aircraft design as well as processing of materials (manufacturing issues). How can engineers prevent or at least minimize such unpleasant events, thus improving aircraft safety? What lessons can we learn from historical mishaps so that they might be avoided in the future? Answers to these questions will be addressed, in the course of exploring 12 case studies, involving both civil and military famous aircraft programs. We will see in these cases how engineers recovered from hidden defects (discovered downstream via aircraft mishaps), and developed workable solutions. Despite lessons learned (presumably) and continual upgrades of engineering methods/tools as well as manufacturing processes over time, unfortunate things still manage to happen to aircraft that are avoidable. Views on future solutions for this challenge will be discussed. Included in the program are two dramatic video clips of defective jet aircraft suffering the consequences of faulty engineering.

*Followed by a tour of:*

## *Air Canada's Maintenance Hangar*

**Description:** The hangar's primary function is to provide work space for overnight scheduled aircraft inspection and unscheduled maintenance and repair. There is an engine staging area, sheet metal shop, and other support facilities within the building. Due to operational requirements, we'll have to wait and see which aircraft will be in the facility during the event.

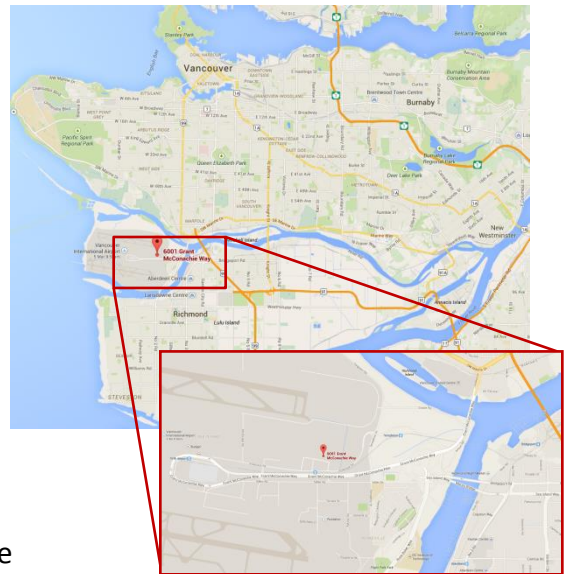
## *Read The Fine Print*

**Cost:** Free for members, \$10 for guests, \$5 for students

**Reservations:** Space is limited to 30 attendees, to reserve your seat, contact Elise Woolliams at:

[elise.woolliams@afcc-auto.com](mailto:elise.woolliams@afcc-auto.com)

**Refreshments:** Light refreshments will be provided



**Event Location:**

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6001 Grant McConachie Way,  
Richmond, B.C.**