



**AHS Montréal - Ottawa Chapter  
in partnership with CAE Inc.**



**invites you to a presentation on the subject of**

## **Rotorcraft Handling Qualities Engineering Managing the Tension between Safety and Performance**

*The 32<sup>nd</sup> AHS Alexander A. Nikolsky Honorary Lecture*

**Dr Gareth Padfield**

**Emeritus Professor of Aerospace Engineering  
School of Engineering, University of Liverpool, UK**



**Thursday 18<sup>th</sup> October, 2012 at 6:15 pm**

*(registration begins at 5:30pm)*

**CAE Inc., 8585 Côte-de-Liesse, Saint-Laurent (Montreal), Qc**  
*Veillez prendre note que la présentation sera faite en anglais*

Join AHS today @ <http://www.vtol.org/>

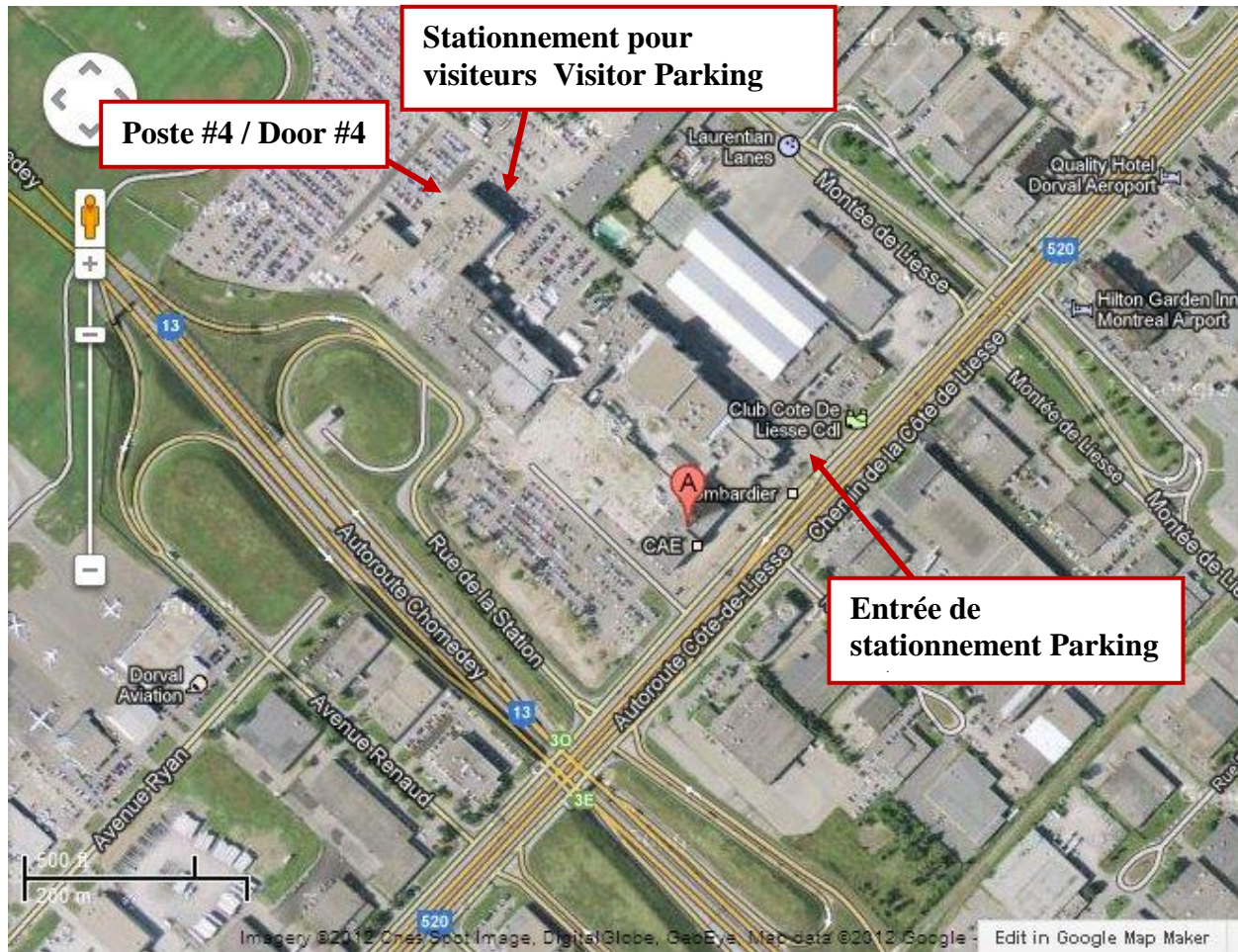
<b>Place:</b>	<b>CAE Inc., 8585 Côte-de-Liesse, Saint-Laurent (Montreal), Qc</b> <b>See directions below</b> <b>Government issued photo ID is required</b>	
<b>Date:</b>	<b>Thursday October 18<sup>th</sup>, 2012</b>	
<b>Agenda:</b>	17h30-18h15	Registration & social networking (light refreshments will be served)
	18h15-19h15	Dr Gareth Padfield
	19h15-19h30	Questions & closing remarks
<b>Cost:</b>	AHS members	Free
	Non-members	\$ 10
	Students, retirees & CAE employees	Free
<b>RSVP:</b>	Space is limited, so please book your seat ASAP (at the latest by <u>Wednesday 10<sup>th</sup> October, 2012</u> ). Register with:	
	Andrew Sayer - <a href="mailto:asayer@bh.com">asayer@bh.com</a> 450-971-6500 x2597	

### **About the speaker**

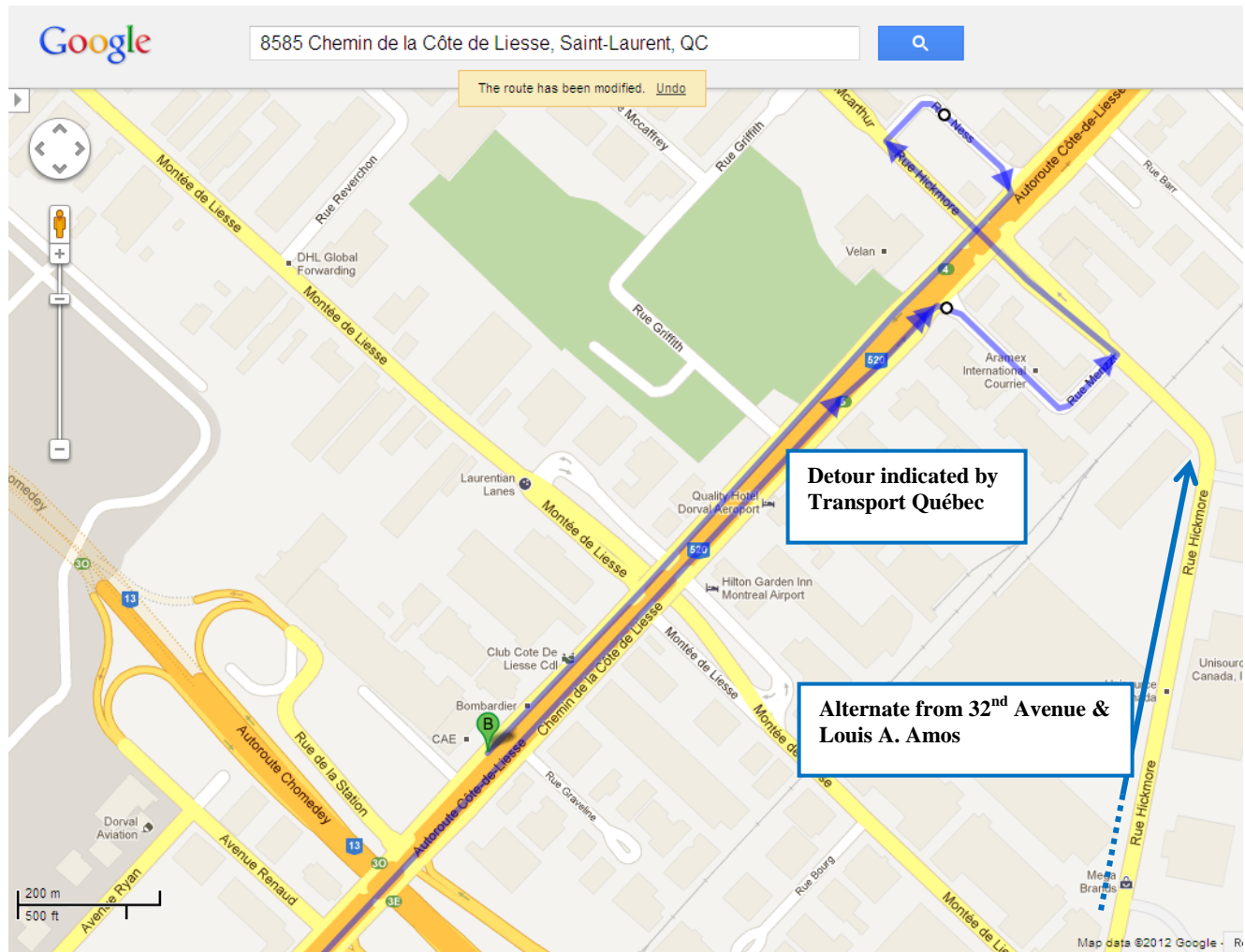
Gareth Padfield received his BSc in Aeronautical Engineering from the University of London in 1969 and PhD in Flight Dynamics at Cranfield College of Aeronautics in 1976. In-between, he held a position at Westland Helicopters as a stability and control engineer. He joined the Royal Aircraft Establishment in 1977 where he specialized in helicopter flight research, engaged in flight test, modeling and simulation, handling qualities and flight control developments; he was appointed Rotorcraft Chief Scientist (Air Systems) in 1995. Padfield took up the James Bibby Chair in Aerospace Engineering at the University of Liverpool in 1999 and was Engineering Department Head between 2004 and 2010. While at Liverpool, projects under Padfield's supervision have included developing the handling qualities and load alleviation functions for the European Civil Tilt Rotor, the design of novel control, display and guidance concepts, simulation fidelity, particularly the aircraft-ship dynamic environment and aircraft/rotorcraft-pilot couplings. Padfield chaired two GARTEUR action groups on simulation fidelity and was a member of three AGARD Working Groups/Lecture Series – Helicopter Aeromechanics (1985), Rotorcraft System Identification (1991) and Operational Agility (1994). He was a member of the Us DoD JSHIP Accreditation Council and UK Forces Officer for TTCP (flight simulation, handling qualities and flight control, 1985-99), receiving a TTCP achievement award in 1995, along with colleagues at the US Army Aeroflightdynamics Directorate laboratory, Hoh Aeronautics and the Canadian Flight Research Laboratory, for the development of Aeronautical Design Standard ADS-33 – Handling Qualities Requirements for Military Rotorcraft. Padfield is a Fellow of the Royal Academy of Engineering and a Fellow of the Royal Aeronautical Society. He is an Honorary member of the AHS Modeling and simulation Technical Committee and a member of the Handling Qualities Technical Committee, Safety Committee and Education Committee. Padfield was appointed a member of the UK Defence Science Advisory Council in 2011.

For general directions, please visit <http://www.cae.com/en/contact.us.asp>. A map and additional notes are below.

Detailed map:



## Detailed map: Driving route from east-bound Côte-de-Liesse:



### Public Transit:

- Option 1:
  - STM bus or AMT commuter train to Dorval STM Terminus
  - 202 or 460 EAST (towards métro Du Collège)
  - Get off on Côte-de-Liesse at HIGHWAY 13.
  - Cross underneath to north side of Côte-de-Liesse using pedestrian underpass at Highway 13.
  - Walk past CAE main entrance and Bombardier simulator building.
  - Turn left at main parking entrance and walk to the back of the CAE building (main parking corridor is between CAE building and CDL Health Club.)
  - Enter at Door #4.
- Option 2:
  - Take metro to Du Collège station. Exit on av. Cartier.
  - Take 202 west. NOTE: Do NOT take the 460 bus from Du Collège metro, since this is an express route, and is not guaranteed to stop in front of CAE during afternoon rush hour.

- Get off the 202 bus at CDL Health club or CAE.
- Walk along main parking corridor between CAE and CDL Health Club to the back of the CAE building.
- Enter at Door #4.

#### CAR:

- From East:
  - Take Highway 520 - Côte-de-Liesse – WEST.
  - Exit at Hickmore, stay on Côte-de-Liesse service road
  - Cross traffic light at Montée-de-Liesse construction zone.
  - Turn right into CAE parking lot immediately after CDL Health Club.
  - Follow signs for Visitor's parking and Door #4 towards the back of the building.
- From North or North-West:
  - Take Highway 40 West. Exit to service road at Côte-Vertu.
  - Exit service road to Côte-Vertu WEST.
  - Turn LEFT at Montée-de-Liesse (first traffic light)
  - Turn right at Côte-de-Liesse (WEST)
  - Turn right into CAE parking lot immediately after CDL Health Club.
  - Follow signs for Visitor's parking and Door #4 towards the back of the building.
- From South-West:
  - Due to reconstruction of Côte -de-Liesse overpass at Montée-de-Liesse, the Montée-de-Liesse underpass is closed. Traffic is diverted to the Hickmore underpass to cross from the east-bound (south) to the west-bound (north) side of Côte -de-Liesse.
  - In the event of heavy traffic congestion on east-bound Côte -de-Liesse caused by this construction, the following alternate route can be used:
    - Côte -de-Liesse WEST, exit for 32<sup>nd</sup> Avenue.
    - Turn Right at 32<sup>nd</sup> Avenue
    - Turn Left at Louis A. Amos. This crosses over highway 13 and turns into Hickmore.
    - Follow Hickmore under Highway 520 (Côte -de-Liesse) and follow directions for Côte -de-Liesse WEST.
    - Cross traffic light at Montée-de-Liesse construction zone.
    - Turn right into CAE parking lot immediately after CDL Health Club.
    - Follow signs for Visitor's parking and Door #4 towards the back of the building.