

Theme: "Runway Safety Risk – A Shared Responsibility"

A 2-day session hosted by NAV CANADA focused on high interest risk issues for Aircraft Operators, ANSPs, Airport Operators, Ground Handlers and others focused on aviation activities at airports. The Common Aviation Risk Models (CARM) meeting will introduce:

- **An Innovative Format**
 - *Facilitated examination of significant risk issues*
 - *Built around existing barrier risk models covering all aspects of aviation operations around airports*
 - *Full participant involvement in discussion to focus on their issues*
 - *BowTie models updated with discussion inputs shared with all participants*
- **Clear benefits to attendees**
 - *Leave with knowledge on actual risk models for each issue valuable for tactical and strategic management in your operation*
 - *Get expert guidance on modelling the risks aspects of importance to you and your organisation*
 - *Build relationships directly relevant to risk management*
 - *Improved collaboration across industry segments*
 - *Introductory training in BowTie risk analysis followed by leading edge application to real risk issues*

Discussion Themes, using an interactive audience approach, will be based on high interest risk issues surrounding all aviation activities at airports. The Discussion Themes involve:

- **Runway excursion risks and the influence of unstable approaches/go around risks**
 - *Representing the highest accident rate, runway excursion risk is a focus for the industry. This discussion will aim to capture those learnings into a clear understanding of the threats, existing and proposed barriers, human and organisational factors and consequence scenarios and how all the industry participants can collaborate to improve barrier management.*
- **UAS Operations Around Airports**
 - *While drone activity represents a new and very real risk to aviation, operations around airports are both high risk but potentially bring benefits. This discussion will not only assess the threats, barriers and consequences for this risk, but also look at innovative approaches to the issues.*
- **Runway Incursion Risks**
 - *From aircraft crossing runways without clearance to construction vehicles operating where they shouldn't, runway incursions present a vast range of threats requiring very different barriers.*
- **Airport Ground Movement Risks**
 - *With large numbers of vehicles, aircraft and people moving on the ground at airports this is an ever-present risk. Perhaps more than any other, this discussion will grapple with the issue of recognition due to the lack of high-profile outcome generally.*
- **Wrong Surface Operations**
 - *From aircraft lining up and even landing on taxiways and out-of-service runways to crews confusing construction areas to active surfaces this is a little understood risk with significant human factors challenges.*

AGENDA		
DAY 1	0900 – 1200 (PDT)	
0900 - 1200	Tom Lintner, The Aloft Group & Jeroen van Dommelen, CGE Risk Management Solutions	Introductory BowTie Methodology intended for newer CARM members. The session is designed to provide the participant with a good foundation of BowTie principles. We will present a high-level overview of the concepts driving BowTie risk models and how to incorporate them into a tactical tool - not simply a static model. We will discuss how to identify requirements for risk barriers and discuss how internal safety data can be utilized with the model as a dashboard and proactive decision-making tool. While reference will be made to certain software tools, the seminar is not a software demonstration. The emphasis will be to the practical concepts and application of BowTie methodology to maximize the knowledge available from your existing safety data. <i style="text-align: center;">COMPLIMENTARY</i>
1200 – 1300		Lunch
1300 – 1315	CARM Chairman Jason Ragogna, Delta Air Lines & Co-Chairman Tom Lintner	Formal start of the meeting, introductions, goals, overview of how group discussions will be conducted leveraging interactive audience participation via verbal and live e-comment communication.
1315 – 1330	Bob Dodd, The Aloft Group	Review – What is already available in the CARM library
1330 - 1345	Dr. Ann Lindeis, NAV CANADA	Human Performance and Human Factors – how they integrate into risk and barrier management.
Theme No. 1 1345 - 1500	Discussion facilitated by Capt. Jacques Mignault, Air Transat	Theme 1: Runway Excursions, Unstable Approaches and Go-Around Risks. In this session, we will have a guided discussion of the critical risk controls for runway excursions and the influence of unstable approaches & go-arounds. The output will be an updated CARM barrier model that can be used by participants as a starting point for their organization to: -assess risk control (barrier) health through SMS data -assist decision-makers on where to focus resources to further mitigate the risks

		<ul style="list-style-type: none"> -assess the appropriateness and effectiveness of proposed mitigation through consideration of the types of risk controls -conduct risk assessments across organizational boundaries e.g. airport-ANSP-air operator -visually communicate the management of the risk
1500 – 1530		Coffee
Theme No. 2 1530 - 1700	<p>1530 - 1545: Opening briefing by Boeing or Airbus or FSF or IATA, invited.</p> <p>1545 – 1700: Follow-on discussion facilitated by Jeffrey Bingham, American Airlines</p>	<p>Theme 2: Runway Incursions. Opening briefing on manufacturer perspective of current operations.</p> <p>In this session, we will have a guided discussion of the critical risk controls for runway incursions. The output will be an updated CARM Runway Incursion barrier model that can be used by participants as a starting point for their organization to:</p> <ul style="list-style-type: none"> -assess risk control (barrier) health through organizations SMS data -assist decision-makers on where to focus resources to further mitigate the risks -assess the appropriateness and effectiveness of proposed mitigation through consideration of the types of risk controls {note: build-in a discussion on human factors} -conduct risk assessments across organizational boundaries e.g. airport-ANSP-air operator -visually communicate the management of the risk
1700 -1730	Jason and Tom	General wrap up, comments, Q&A, and expectations for Day 2.
1800 +	UNHOSTED – general social gathering / dinner	<u>The Flying Beaver Bar and Grill</u> – a wonderful little pub right on the water, on airport property, just a short taxi-ride (or maybe long walk) from the hotel.
DAY 2	0800 – 1600 (PDT)	
0800 – 0845	Tom and Jason	Comments and Q & A from Day 1
0845 – 0930	(FSF or IATA, invited)	Presentation on current State of the System highlighting key areas of safety and risk with associated trends.
0930 – 1000		Coffee
Theme No. 3 1000-noon	1000 – 1045: Opening briefing by Vancouver Airport (invited)	Theme 3: Airport Ground Movement Risks. Opening briefing on the airport’s perspective of risks.

Theme No. 3 Continued	1045 – noon: Follow-on discussion facilitated by Bob Dodd	This guided discussion will examine risks as viewed by key aviation organizations involved on the movement areas, e.g. Airports, Operators, Ground Support, ATC, etc. What are the common risks and leveraging difference experiences to identify and manage surface operation risk.
1200 – 1315		Lunch
Theme No. 4 1315 – 1430	1315 - 1345: Opening briefing by (TBD). 1345 - 1430: Follow-on discussion facilitated by Jeffrey Bingham, American Airlines	Theme 4: emerging risks – UAV/RPAS. Opening briefing by (TBD) In this session, we will have a guided discussion of the critical risk controls for UAV risk of collision. The output will be a new CARM UAV/RPAS barrier model that can be used by participants as a starting point for their organization.
Theme No. 5 1430 - 1530	1430-1445: Opening briefing by Air Canada (invited) 1445-1530: Follow-on discussion facilitated by Bob Dodd	Theme 5: Wrong Surface Landing. Opening briefing on AC 759. This discussion will endeavor to identify a new risk model, leveraging a specific event, to create a new CARM model addressing a current hazard.
1530 - 1600	Jason and Tom	Wrap up

TRAVEL & OTHER DETAILS

*12-13 February 2018
Hosted by NAV CANADA
Fairmont Hotel at the Airport
Vancouver, BC, Canada*

There is no charge to participate in this 2-day event.

Feb. 12, 2019 - 9:00 a.m. - 5:00 p.m. (PDT)

Feb. 13, 2019 - 8:00 a.m. - 4:00 p.m. (PDT)

FAIRMONT HOTEL ROOM BLOCK - There are a limited number of rooms reserved that will be offered at the NAV CANADA corporate rate for the night of Feb. 12. Those rooms will be first come, first served. There are other options for off-airport hotels that are very close to the airport.



NAV CANADA FAIRMONT SPECIAL ROOM RATES

"Fairmont" Rooms at \$219.00 CAD per night + tax

"Deluxe" Rooms at \$269.00 CAD per night + tax

"Gold" rooms \$379.00 CAD per night + tax

HOW TO BOOK THE FAIRMONT - The link to book the NAV CANADA rate

is <https://book.passkey.com/go/navcanadameeting>

Guests will be able to make reservations three days prior and three days after Feb. 12 at the contracted group rates based on availability.

Guests can also call the Global Reservation Centre at [1-800-441-1414](tel:1-800-441-1414). Please identify yourself as associated with the NAV CANADA Meeting or offer the group Block Code NAVC0219.

SPACE IS LIMITED TO ATTEND THE MEETING - RSVP required:

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