



Symposium for Fatigue Management

Approaches in Aviation

Evolution from the Cockpit to the ATC Unit
ICAO Headquarters, Montréal 5 – 6 April 2016

DAY 1 – TUESDAY, 5 APRIL 2016	
SESSION 1 Welcome and Keynote Presentations	
09:00 – 09:30	Master of Ceremonies Miguel Marin, Acting Chief Operational Safety, ICAO
	Welcome Note Steve Creamer, Director, Air Navigation Bureau, ICAO
	 Panel Topic: Roles and responsibilities in FM Moderator: Catalin Radu, Deputy Director, Safety, ICAO Panel Mike Comber, Director, Member and External Relations, IATA Don Wykoff, Chair, IFALPA Flight Time Limitations Workgroup President Emeritus, IFALPA Kurt Edwards, Director General, IBAC Nico Voorbach, Director, ICAO and Industry Affairs, CANSO Patrik Peters, President and CEO, IFATCA, Mark Millam, VP Technical, Flight Safety Foundation
09:30 - 10:30	Keynotes Prof. Philippa Gander, Director Sleep/Wake Research Centre, Massey University What are the key FM scientific principles? Mr Ricardo Génova Galván, Flight Standards Director, EASA Compliance with prescriptive regulations in a performance-based regulatory environment.
	Capt. Stephen Dickson, Senior VP Flight Operations, Delta Air Lines FRMS: Is it worth it?
10:30 - 11:00	Coffee Break
SESSION 2 What are the differences in implementing prescriptive vs FRMS regulations?: Insights from States that have already done so.	
11:00 – 12:30	Moderator Elizabeth Gnehm, Secretary, Safety Management Panel, ICAO Panel Nick Strange, Regulatory Specialist (Standards), CASA Dale Roberts, Aviation Safety Inspector, Air Transportation Division, FAA Jarnail Singh, Chairman of the Civil Aviation Medical Board, Singapore CAA Daniel Coutelier, Rulemaking Officer, EASA Roger Langman, Manager Flight Operations 135 Acting, South Africa CAA
12:30 – 14:00	Lunch





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DAY 1 - TUESDAY, 5 APRIL 2016 (continued)

SESSION 3 Fatique Management or Labour Laws and Contracts?: Challenges for States in the middle of revising or developing FM regulations.

Moderator

Jim Mangie, Program Director (Pilot Fatigue), Delta Air Lines

Panel

14:00 - 15:30

16:00 - 17:00

Thomas Vezin, Chief, Flight Standards, DGAC France Izabela Tissot Antunes Sampaio, Civil Aviation Specialist, ANAC, Brazil Jörgen Weden, Flight Inspector, Swedish Transport Agency **Oğuzhan Kabakci,** Head of Flight Operations Department, CAA Turkey

Topics to be addressed

- Revising prescriptive limits adopting another State's regulations or establishing State-specific regulations?
- How have existing labour agreements/contracts/laws impacted on the way you manage fatigue?
- How was the decision to offer (or not offer) FRMS regulations made?

15:30 - 16:00 Coffee Break

SESSION 4 *FM Developments and Tools*

Moderator

Catalin Radu, Deputy Director, Safety, ICAO

Presentations and Speakers

- Nina McGrath, IATA FRMS Task Force
 - Identifying common safety performance indicators
- Tom Nesthus, Engineering Research Psychologist, FAA Civil Aerospace Medical Institute
 - Baselining an ALOS with regards to fatigue
- Kathryn Jones, Human Factors Programme Manager, UK CAA
 - Developing safety cases
- **Kris Tritschler,** *Director, smartshiftwork.com*
 - Fatigue Risk Assessment Methodologies
- Margo van den Berg, Sleep/Wake Research Centre, Massey University
 - FM Developments for Cabin Crew

17:00 - 19:00Welcome Reception



END OF DAY 1





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DAY 2 - WEDNESDAY, 6 APRIL 2016

SESSION 5 What are the implications of the new ATC FM provisions?

Chris Dalton, Chief, Airspace Management and Optimization, ICAO

Panel

Claire Marrison, CANSO

Daniel Coutelier, Rulemaking Officer, EASA

Jason Demagalski, Human Factors and Fatique Risk Manager, Air Traffic Organization, FAA Jeff Richards, IFATCA

09:00 - 10:30

11:00 - 12:30

Mohammad Al Dossari, Director, Air Navigation & Aerodromes Department, UAE General Civil Aviation Authority Yasumasa Takahashi, Assistant to the Director, Air Navigation Services Office, Japan Civil Aviation Bureau **Ashley Nunes,** *Independent policy analyst and commentator, Visiting researcher (Université Paris Descartes)*

Topics to be addressed

- What are the benefits for ANSPs and for ATCs?
- How do different regulators plan to address these?
- With a lack of distinction between regulator and service provider roles, can fatigue be adequately managed using either prescriptive of FRMS approaches?

10:30 - 11:00 Coffee Break

Getting Started: Implementing FM Approaches for ATCs

Ruth Stilwell, Executive Director, Aerospace Policy Solutions, LLC

Panel

Ann Lindeis, Director, Safety Management and Human Factors, NavCanada (TBC)

Jaco van der Westhuizen, Human Factors/ Development and Learning Specialist, ATNS South Africa

Paul Fallow, Head of Service Delivery, Airways New Zealand

Moussa Soura, CELICA-ATC Executive from Direction of Operations, ASECNA

Neil May, Head of Human Factors, NATSs

Sinead McCloskey, Director of Assurance, Dubai Air Navigation Services

Topics to be addressed

- How are ANSPs managing ATC fatigue now and what changes are necessary to address future requirements?
- How will contractual obligations that might constrain the prescriptive and FRMS approaches be dealt with?
- Are SMSs already well-established in all ANSPs?
- Do ANSPs need FRMS?
- What tools do the ANSPs need to help them implement?

12:30 - 14:00Lunch





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DAY 2 - WEDNESDAY, 6 APRIL 2016 (continued)

SESSION 7 Addressing fatigue management needs in other industry sectors

Moderator

Michelle Millar, Technical Officer (Human Performance), ICAO

Alex Holmes, Research Director, Clockwork Research

Claudia Cabaco, Flight Safety Assistant Manager, Netjets Europe

Nick Strange, Regulatory Specialist, CASA

Craig Hanlon, Chief Pilot, DuPont Aviation, representing IBAC

Kathryn Jones, Human Factors Programme Manager, UK CAA

Kevin Morgan, Manager, AFS-350, General Aviation Branch, FAA

Leigh Signal, Associate Director and Senior Research Fellow, Sleep/Wake Research Centre, Massey University

Topics to be addressed

- It is not a matter of copy and pasting FM SARPs and regulations from one industry sector to another. How do acceptable levels of risk differ between different types of operations and how should this be reflected in fatigue management requirements?
- What are the FM needs of helicopter operators, business jet operators, emergency medical services sectors and aviation maintenance engineers and how can we best address them?

15:30 - 16:00

16:00 - 17:00

14:00 - 15:30

Coffee Break

SESSION 8 Are cultural differences affecting the implementation of FM approaches?

Moderator

Curt Graeber, *President, The Graeber Group*

Presentations and Speakers

Are the FM processes and "best practices" identified in ICAO guidance generic or do we need to develop implementation alternatives that may be more suited in different cultural contexts? What might these be?

- SeungYoung Lee, Executive Director, Air Line Pilots Association of Korea
 - Implementation in Korea
- **Zhang Yu,** Deputy Division Director, Flight Standards Department, CAAC
 - Implementation in China
- Mike Boyd, Technical Officer, ICAO
 - Elastic waist trousers

Close

Steve Creamer, Director, Air Navigation Bureau, ICAO

END OF DAY 2