



Loss of Control In-Flight Symposium

ICAO Headquarters, Montréal

20 – 22 May 2014

DAY 1 – TUESDAY, 20 MAY 2014

07:30 – 09:30	Registration
09:30 – 10:10	<p>Opening</p> <p>Welcome by Nancy Graham, Director Air Navigation Bureau, ICAO</p> <p>Keynote Speaker</p> <ul style="list-style-type: none"> • Peggy Gilligan, Associate Administrator for Aviation Safety, <i>Federal Aviation Administration</i>
SESSION 1 <i>The Big Picture</i>	
10:10 – 10:30	<p>Presentation</p> <p><i>The organizational impact of a LOC-I accident</i></p> <p>Speaker</p> <ul style="list-style-type: none"> • Bertrand de Courville, LOC-I Consultant, <i>International Air Transport Association</i>; Co-Chair of the <i>European Commercial Aviation Safety Team</i>
10:30 – 11:00	<p><i>Coffee Break</i></p> <p>Sponsored by:</p> <div style="text-align: right;">  <p>BOMBARDIER the evolution of mobility</p> </div>
SESSION 2 <i>Precursors and Contributing Factors</i>	
11:00 – 12:30	<p>Presentations / Panel discussion / Q&As from audience</p> <p><i>With few but fatal accidents, can we aggregate and protect the right data to determine the priorities for addressing contributing factors?</i></p> <p>Moderator: John Illson, Chief, <i>Integrated Safety Management, ICAO</i></p> <p>Speakers</p> <ul style="list-style-type: none"> • Marcus Costa, Chief, <i>Accident Investigation Section, ICAO</i> • Dennis Crider, Chief Technical Advisor, <i>National Transportation Safety Board</i> • Nathalie de Ziegler, Air Operations Adviser, <i>Bureau d'Enquêtes et d'Analyses</i> • Peggy Gilligan, Associate Administrator for Aviation Safety, <i>FAA</i> • Jules Kneepkens, Rulemaking Director, <i>European Aviation Safety Authority</i> • Terry McVenes, Director, <i>Operational Safety and Regulatory Affairs, Boeing</i>
12:30 – 14:00	<p>Lunch</p> <p>Sponsored by:</p> <div style="text-align: right;">  ICAO </div>



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DAY 1 – TUESDAY, 20 MAY 2014 (continued)

SESSION 3 *Avoidance I – The Management of ‘Everyday Things’*

Presentations / Panel discussion / Q&As from audience

Before addressing conditions that occur ‘outside the envelope’, how well are we dealing with everyday conditions ‘within the envelope’? Do we need to find ways to improve the way we conduct and train for routine operations?

Moderator: Bryan Burks, Alaska Airlines UPRT content developer; ICATEE Co-Chair; IFALPA

14:00 – 15:30

Speakers

- **Bertrand de Courville**, LOC-I Consultant, *International Air Transport Association*; Co-Chair of the European Commercial Aviation Safety Team
- **Joris Field**, Research Engineer, *National Aerospace Laboratory of the Netherlands*
- **Larry Rockliff**, Chief Test Pilot, *Airbus*
- **Jon Tovani**, Managing Director, Flight Training at *Delta Air Lines*; Captain, Boeing 777
- **James Wilborn**, Co-chair of CAST Joint Safety Analysis Team on LOCI, *FAA*

15:30 – 16:00

Coffee Break

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SESSION 4 *Avoidance II – Dealing with a dynamic environment: New technologies, new generations of pilots*

Presentations / Panel discussion / Q&As from audience

Can new technologies assist current and new generations of pilots to avoid pre-LOC-I conditions?

Moderator: Ian Banks, Manager Safety Management Systems and Human Factors, *Civil Aviation Safety Authority Australia*

16:00 – 17:30

Speakers

- **Marion Choudet**, Safety Manager, *ATR France*
- **Sylvain Hourlier**, Human Factors Senior Scientist and Design Authority, *Thales*
- **Arun Karwal**, Research Test Pilot, *National Aerospace Laboratory*
- **Harry Nelson**, Executive Operational Advisor to Product Safety, *Airbus*
- **Mike Snow**, Co-chair of CAST Joint Safety Analysis Team on LOCI, *Boeing*

17:30

Welcome Reception

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End of Day 1



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DAY 2 – WEDNESDAY, 21 MAY 2014

SESSION 5 *Recognition I – Managing automation*

<p>09:00 – 10:30</p>	<p>Presentations / Panel discussion / Q&As from audience <i>How can we maximize on the safety and efficiency benefits that automation brings, and address problems related to erroneous expectations and mismanagement?</i></p> <p>Moderator: Harry Nelson, Executive Operational Advisor to Product Safety, Airbus</p> <p><u>Speakers</u></p> <ul style="list-style-type: none"> • Kathy Abbott, Chief Scientific and Technical Advisor, Flight Deck Human Factors, FAA • Daan Dousi, Flight Crew Licensing Rulemaking Officer, European Aviation Safety Agency • Mike Feary, Research Psychologist, Human Systems Integration Division, NASA • Barbara Holder, Lead Scientist and Associate Technical Fellow, Boeing • David McKenney, Human Factors Chairman, Vice-Chair Human Performance Committee, IFALPA • Lance Sherry, Assoc. Professor, System Engineering and Operations Research Dept., George Mason University
<p>10:30 – 11:00</p>	<p>Coffee Break Sponsored by</p> 

SESSION 6 *Recognition II – Managing human limitations*

<p>11:00 – 12:30</p>	<p>Presentations / Panel discussion / Q&As from audience <i>In order to recognize the potential convergence of pre-LOC-I conditions, can we improve a pilot's ability to monitor, remain vigilant, overcome fatigue and avoid perceptual illusions, or do we need to focus on coordinating crew activities and technologies so that good decisions are made early?</i></p> <p>Moderator: Michelle Millar, Technical Officer (Human Performance), ICAO</p> <p><u>Speakers</u></p> <ul style="list-style-type: none"> • Clint Balog, Professor, Worldwide Campus, Embry Riddle University • Sebastien David, Senior Air Safety Investigator, Bureau d'Enquêtes et d'Analyses • Anne Isaac, Head of Human Performance, External Safety, NATS • David McKenney, Human Factors Chairman, Vice-Chair Human Performance Committee, IFALPA • Claire Pelegrin, Director Human Factors, Airbus. • Helena Reidemar, Director of Human Factors, ALPA
<p>12:30 – 14:00</p>	<p>Lunch Sponsored by</p> 



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DAY 2 – WEDNESDAY, 21 MAY 2014 (continued)

SESSION 7 *Recovery I – Startle: What is it and how can we manage it?*

Presentations / Panel discussion / Q&As from audience

Why don't we always respond the way we think we will in an unexpected event? What individual and crew strategies are there for managing the physiological and cognitive effects of an unexpected threatening event, such as LOC-I?

Moderator: Bertrand de Courville, LOC-I Consultant, *International Air Transport Association*

Speakers

14:00 – 15:30

- **Kathy Abbott**, Chief Scientific and Technical Advisor, Flight Deck Human Factors, *FAA*
- **Clint Balog**, Professor, Worldwide Campus, *Embry Riddle University*
- **Nikki Heath**, CEO, *Symbiotics Ltd.*
- **Anne Isaac**, Head of Human Performance, External Safety, *NATS*
- **Wayne Martin**, Scientist, *Griffith University*; Human Factors Specialist and B777 First Officer, *Virgin Australia Airlines*
- **Jeff Schroeder**, Chief Scientific and Technical Advisor, *FAA*

15:30 – 16:00

Coffee Break
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SESSION 8 *Recovery II – New approaches*

Presentations / Panel discussion / Q&As from audience

What recent simulator developments and regulatory approaches aim to improve the way pilots respond to LOCI-I conditions in the cockpit?

Moderator: Lou Nemeth, Chief Safety Officer, *CAE*

Speakers

16:00 – 17:30

- **Robert Burke**, Manager, Air Carrier Training Systems and Voluntary Safety Programs Branch, *FAA*
- **Henry Defalque**, Technical Officer (Licensing and Operations), *ICAO*
- **Daan Douzi**, Flight Crew Licensing Rulemaking Officer, *European Aviation Safety Agency*
- **Roman Marushko**, Program Manager - Flight Technical & Operator Certification Standards, *Transport Canada*
- **Larry Rockliff**, Chief Test Pilot, *Airbus*
- **Peter Tharp**, International Pilot Training Consortium, *RAeS*

End of Day 2



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DAY 3 – THURSDAY, 22 MAY 2014

SESSION 9 *Training I – Upset Prevention and Recovery Training*

<p>09:00 – 10:30</p>	<p>Presentations / Panel discussion / Q&As from audience <i>What are the cost/benefits of implementing UP&R training? What does best practice for in-aircraft UP&R training look like? What FSTD updates are required to achieve effective UP&R training and how can we account for known simulator limitations?</i></p> <p>Moderator: Robert Burke, Manager, Air Carrier Training Systems & Voluntary Safety Programs Branch, FAA</p> <p>Speakers</p> <ul style="list-style-type: none"> • Bryan Burks, Alaska Airlines UPRT content developer; ICATEE Co-Chair; IFALPA • Lou Nemeth, Chief Safety Officer, CAE • Paul Ransbury, President, Aviation Performance Solutions • Itash Samani, Head of Global FSTD Regulations - CAE Regulatory Affairs, CAE • Jeff Schroeder, Chief Scientific and Technical Advisor, FAA • Stephen Stowe, Senior Engineering Test Pilot, Bombardier Flight Test Center • Jon Tovani, Managing Director, Flight Training; Captain, Boeing 777 at Delta Air Lines
<p>10:30 – 11:00</p>	<p>Coffee Break Sponsored by</p>  ICAO

SESSION 10 *Training II – Training Challenges*

<p>11:00 – 12:30</p>	<p>Presentations / Panel discussion / Q&As from audience <i>How can the potential for negative transfer of training in-aircraft and in FSTDs be avoided? What are the “human factors” that need to be part of UP&R training and how can they be embedded into current training programmes? What qualifications do instructors need to ensure effective UP&R training? What are the challenges of overseeing UP&R training programmes? How can we best train UP&R to the next generation of pilots?</i></p> <p>Moderator: Mitchell Fox, Chief, Operations Section, ICAO</p> <p>Speakers</p> <ul style="list-style-type: none"> • Sunjoo Advani, ICATEE Co-Chair; President, International Development of Technology • Hartmut Fabisch, Consultant ITQI-MPL, International Air Transport Association • Tanja Harter, Licensing & Training Chairperson, Vice-Chair Human Performance Committee, IFALPA • Barbara Holder, Lead Scientist and Associate Technical Fellow, Boeing • Carlos Pellegrino, Director of Aircraft Operations, Agência Nacional de Aviação Civil, Brazil
<p>12:30 – 14:00</p>	<p>Lunch Sponsored by</p>  ICAO



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DAY 3 – THURSDAY, 22 MAY 2014 (continued)

SESSION 11 *Look ahead and next steps*

<p>14:00 – 15:00</p>	<p>Panel Discussion / Q&As from audience <i>Based on the discussions held in the preceding sessions, what further work needs to be done? What resources are there? How can current activities be coordinated to facilitate future developments and ensure efficient use of resources? How can the outputs of the work be made widely accessible?</i></p> <p>Moderator: Nancy Graham, <i>Director, Air Navigation Bureau, ICAO</i></p> <p>Panelists:</p> <ul style="list-style-type: none"> ● Stéphane Clement, <i>Director of Safety Regulatory Affairs, CAE</i> ● Mitch Fox, <i>Chief, Operations Section, ICAO</i> ● Kevin Hiatt, <i>Senior VP for Safety and Flight Operations, IATA</i> ● Jules Kneepkens, <i>Rulemaking Director, European Aviation Safety Authority</i> ● Terry McVenes, <i>Director, Operational Safety and Regulatory Affairs, Boeing</i> ● Carlos Pellegrino, <i>Director of Aircraft Operations, Agência Nacional de Aviação Civil, Brazil</i> ● Larry Rockliff, <i>Chief Test Pilot, Airbus</i> ● James Wilborn, <i>Co-chair of CAST Joint Safety Analysis Team on LOCI, FAA</i> ● Don Wykoff, <i>President, IFALPA</i>
<p>15:00</p>	<p>Closing Remarks</p>
<p><i>End of Symposium</i></p>	