

SM ICG Industry Day 2024

Wellington, New Zealand

Abstracts and Speaker Biographies



November 5, 2024

Host Welcome to Industry Day



David Harrison, Deputy Chief Executive, CAANZ

Born in Derby in the United Kingdom, David moved to New Zealand in 2007 with wife Fiona (a Kiwi) and daughter Olivia after completing 30 years' service with the Royal Air Force leaving with the rank of Air Commodore. Having lived initially in the North Island near Hamilton, he moved to Dunedin and lives on 100 acres on the Otago Peninsula at Hooper's Inlet.

David flew the Phantom and the Tornado F3 in military service, was both a qualified weapons instructor and a qualified flying instructor on the Tucano and a display pilot with the Battle of Britain Memorial Flight.

He was a Chief Flying Instructor at CTC Hamilton until joining the CAA in 2015. David remains a current A Cat flight instructor and GA Examiner.

He has served in various roles in the CAA including as Principal Aviation Examiner, Manager Licensing and Standards and took up the position as the Deputy Chief Executive Aviation Safety in June 2021.

David is a Fellow of the Royal Aeronautical Society (FRAeS).

<p>Presentation Title: Advancing Aviation System Safety</p>  <p>AIR NEW ZEALAND</p> <p>Air New Zealand operates a global network that provides air passenger and cargo services to, from and within New Zealand. Each year Air New Zealand fly more than 15 million passengers on our network, offering more than 3,400 flights a week to 49 domestic and international destinations.</p>	<p>Capt. David Morgan, Chief Operational Integrity and Safety Officer, Air New Zealand</p> <p>Speaker Biography:</p> <p>David is no stranger to the aviation industry, joining the airlines as a pilot in 1985 and later joining the Flight Operations team in 1996.</p> <p>In 2006, David was appointed the Chief Operational Integrity and Safety Officer, taking on the responsibility for determining the Flight Operations policy, standards, and procedures by which our aircraft are operated, as well as overseeing the Learning, People Safety and Sustainability functions for the airline.</p> <p>In this role, David is also accountable for the Aviation Group Security Business Continuity and Emergency Management. He is a current Boeing 787 Chief Pilot.</p>
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<p>Presentation Title: SMS – A Safety Manager's Perspective</p>  <p>AIR NEW ZEALAND</p> <p>Air New Zealand operates a global network that provides air passenger and cargo services to, from and within New Zealand. Each year Air New Zealand fly more than 15 million passengers on our network, offering more than 3,400 flights a week to 49 domestic and international destinations.</p>	<p>Mark Hughes, Senior Manager Operational Safety, Air New Zealand</p> <p>Speaker Biography:</p> <p>Mark is the Senior Manager Operational Safety for Air New Zealand. In this role Mark leads a team of safety specialists focused on supporting the airline's Safety Management System (SMS), including assisting leaders and personnel to enhance the effectiveness of operational safety management.</p> <p>Mark was previously the Deputy Director Air Transport & Airworthiness for CAANZ. In this capacity Mark played a leading role in the introduction of SMS to New Zealand civil aviation. He was also the Sponsor for New Southern Sky, the programme designed to bring stakeholders together for the modernisation of New Zealand's air navigation systems.</p> <p>Previous to that, Mark held the position of Director of Flight Operations (DFO) and Chief Pilot for two large Canadian airlines. He has held instructor and flight examiner roles on a range of large commercial turbojet aircraft and held leadership positions in military aviation (RNZAF and RCAF).</p> <p>Mark's passion is working with and mentoring others regarding aviation safety. In particular, Mark enjoys working in areas where human factors and systems combine to reduce the risk of accident and harm.</p>
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Presentation Title:

SMS – Developing Data



Our mission is to deliver the ultimate adventure experience to each customer through personal service and secure the NZONE brand as being synonymous with quality, safety, and excitement.

We own and operate two turbine aircraft, have erected purpose-built facilities at our skydive drop zones and uphold a rigorous equipment replacement program.

Our approach to safety is second to none, with specifically trained parachute packers, an on-site Chief Safety Officer, and the Directors' first-hand knowledge of the industry. Our staff are highly trained and are amongst the most experienced in New Zealand.

Jeremy Booth, Group Safety Manager, Skydive Queenstown

Speaker Biography:

Jeremy Booth spent a lot of his twenties following winters, skiing. At times spending as much time outside the ski areas boundary as in it. Learning to manage the risks of alpine travel, avalanche danger and 'expectations' was a natural part of this.

These adventures were supported working in the Australian Outback on Drilling Rigs in between ski seasons. He largely conducted grassroots exploration in the middle of nowhere for up to 2 months at a time. Kangaroos, enormous lizards, and 40+deg heat were ever present, as were poisonous snakes and spiders.

This chapter of his life culminated with two years in an underground mine, where he was asked to join and then run the emergency rescue team. The skills learned here included firefighting, underground search & rescue, using rebreathers, industrial rope rescue, Haz mat response and more. Due to the remote location, the emergency team were also tasked with and trained to respond to vehicle accidents on the nearby highway.

Moving to Wanaka permanently to start a family in 2005 Jeremy began working in skydiving as a parachute packer. Although he had solo skydived before he was nowhere near professional level, and as he moved onto the management side of skydiving that did not change.

Jeremy has now managed two skydive operating certificates that have overseen hundreds of thousands of skydives. He has also set up numerous SMS's covering adventure aviation, aviation maintenance, adventure tourism and luxury lodges.

He has held the roles of Safety Manager, General Manager and Chief Executive.

He is presently the Group Safety Manager of Experience Co, an Australian publicly listed company specializing in adventure tourism experiences, the CEO of Performance Aviation NZ - an aircraft engineering company based in Wanaka and is the Safety Manager & Maintenance controller – Parachutes for Skydive Queenstown.

In his personal life he is a father and mountain bikes or skis every week, depending on the season.

<p>Presentation Title:</p> <p>Smart Design: SMS Maturity and Focusing on the Frontline</p>  <p>AIRWAYS</p> <p>As New Zealand's air navigation service provider, Airways manages one of the largest airspaces in the world and provides air traffic management services that are safe, modern, technologically advanced, reliable and efficient.</p>	<p>Kim Nichols, General Manager, Safety and Assurance, Airways</p> <p>Speaker Biography:</p> <p>Kim specialises in safety, governance, change and safety culture. Since joining Airways in 2010, Kim has integrated Airways' governance functions for safety (health and safety and operational safety), audit and risk management, security management and analysis and advisory. Kim has led the creation of the integrated Airways Safety Management System, encompassing the CANSO standard of excellence, CAA Rule Part 100 and the Health and Safety Act 2015.</p> <p>Becoming a Just Culture Champion in 2015, Kim's focus is on embedding a safety culture that enables positive reporting, accountability, and learning. Kim is also the Crisis Manager for Airways.</p> <p>Kim is part of the Global Safety Network for CANSO, a participant in the NZ Business Leaders forum and a member of a number of risk and audit forums.</p> <p>Prior to joining Airways, Kim held senior roles in companies such as British Gas Trading and Deloitte (UK). Kim has a commerce degree from Lincoln University and is a qualified auditor.</p>
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Presentation Title:

Fast Paced & Critical: Turning Safety Data into Life Saving Care in the Air



**New Zealand
Air Ambulance
Service**

New Zealand Air Ambulance Service is part of the Skyline Group of Companies, delivering leading-edge, fully accredited aeromedical services throughout New Zealand, the South Pacific and beyond.

With over 50,000 patients safely transported within New Zealand and globally, they have an exemplary reputation nationally and internationally in the air ambulance industry.

**Dylan Robinson, Group Quality and Safety Manager,
NZ Air Ambulance Service**

Speaker Biography:

As the Group Quality and Safety Manager at the New Zealand Air Ambulance Service / Skyline Aviation, Dylan is responsible for the organisation's integrated Safety Management System.

Dylan started his career as an Aeronautical Maintenance Engineer and Maintenance Control Engineer with Air New Zealand before becoming a Lead Auditor & Investigator in the airline's Operational Integrity Team.

Dylan has a passion for the aeromedical sector and is involved in the ongoing enhancement of air ambulance standards in New Zealand as a member of the NZ Aeromedical / Air Search and Rescue development panel and as a technical committee member with Standards New Zealand. Dylan is also a member of the Civil Aviation Authority Aviation Community Advisory Group, and the Health New Zealand Aeromedical Commissioning Clinical and Technical Advisory Group.

Presentation Title:

SMS – Simplifying Safety Management



Air New Zealand operates a global network that provides air passenger and cargo services to, from and within New Zealand. Each year Air New Zealand fly more than 15 million passengers on our network, offering more than 3,400 flights a week to 49 domestic and international destinations.

Marina Kunz, Manager of Operational Safety and Integrity – Flight Ops, Air New Zealand

Speaker Biography:

Marina is the Manager of Operational Safety and Integrity for Flight Operations at Air New Zealand. In her role, she provides support to managers and leaders on safety management systems, just culture, risk management, and change management. She is also involved in safety data analysis, monitoring safety trends, enabling safety mechanisms, safety and risk management training and promoting best practices in safety.

Marina's aviation career began as a Cabin Crew member, where her interest in safety was sparked. Over the years, she has held various roles, from customer service to safety promotion lead, each allowing her to deepen her understanding of safety protocols across different operational aspects. This journey has equipped her with extensive knowledge and skills in implementing and improving Safety Management Systems (SMS).

In her current role, Marina's contributions to the SMS are multifaceted. She supports the development of proactive safety approaches, raises awareness of the roles and responsibilities in safety, and promotes a strong safety culture within the organization. Marina is also actively involved in various safety-related networks and groups, with a particular focus on Fatigue Risk Management.

Marina is passionate about exploring new technologies and their application in enhancing aviation safety performance. While her daily work primarily involves safety risk management, she finds the most joy in the safety promotion pillar, especially in writing and designing safety communications.

<p>Presentation Title:</p> <p>An Example of How Risk Can Creep into A System</p> <p>A joint presentation from Airways and Queenstown Airport Corporation.</p>  <p>AIRWAYS</p> <p>As New Zealand's air navigation service provider, Airways manages one of the largest airspaces in the world and provides air traffic management services that are safe, modern, technologically advanced, reliable and efficient.</p> <p>ZQN Queenstown Airport</p> <p>Queenstown Airport is located in Frankton 8km (about a 10-minute drive) from Queenstown CBD.</p> <p>Four commercial airlines operate at the airport; Air New Zealand, Jetstar, Qantas and Virgin Australia.</p> <p>The airport is the direct domestic and international entry point to the lower South Island, providing easy access to some of New Zealand's most iconic destinations such as Queenstown, Wanaka, Fiordland and Central Otago.</p>	<p>Tim Bradding, Head of Aerodrome Services, Airways</p> <p>Speaker Biography:</p> <p>Tim has been involved in the aviation industry for his whole career, initially with the Royal New Zealand Air Force before embarking on an Air Traffic Control career with Airways New Zealand in 2000. After completing an initial ATC licence and working at multiple regional towers he transferred to Christchurch and trained as a surveillance controller working in enroute sectors and then on Wellington Approach. During this time Tim also worked in Safety Management roles for Airways.</p> <p>In 2007 Tim pursued an opportunity in the Middle East as a surveillance controller where he worked in both line controlling and management roles over 5 years. In late 2011 Tim returned to Christchurch taking up the role of Safety Manager for Airways New Zealand. When an opportunity arose to manage the Air Traffic operation at Hamilton in late 2012, he moved back to the North Island and settled in the Waikato where we has since resided with his family.</p> <p>Since 2012 Tim has worked in line operations, prior to moving into senior management roles overseeing the Northern Towers group through the COVID period and since 2022 as Head of Aerodrome Services overseeing all of Airways aerodrome operations in New Zealand.</p>
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<p>Presentation Title: Airworthiness and Utilising Safety Data for Enhanced Decision Making in Military Aviation</p>  <p>New Zealand DEFENCE FORCE Te Ope Kātua O Aotearoa</p> 	<p>Squadron Leader David Bacon, Defence Aviation Authority, New Zealand Defence Force</p> <p>Speaker Biography:</p> <p>David is the Director Defence Aviation Safety Bureau at NZDF Defence Aviation Authority. The role principal representative on matters concerning aviation safety investigations, and regulatory aviation safety functions for Chief of Air force.</p> <p>An aircraft engineer by training David crewed P3K2 Orion and Boeing 727 aircraft at 5 and 40 Squadrons as a flight engineer over a fifteen-year military flying career. David was heavily involved in operational test and evaluation programmes of RNZAF aviation introduction into service programmes undertaking trial manager and operational test director roles. David flew in a civil capacity crewing B727 aircraft for DHL and has worked extensively in civil aviation undertaking operations and maintenance management roles. David joined NZDF Defence Aviation Authority in 2019 establishing the Defence Aviation Safety Bureau an independent investigation and safety agency for NZDF aviation.</p> <p>Squadron Leader Bacon has a post graduate degree in Aviation management at Massey University earning Deans Scholar award on graduation and is a graduate of the Southern California Safety Institute Air Safety Investigator programme.</p> <p>Squadron Leader Nathan Barrack, Military Air Operator Quality Management Organisation, New Zealand Defence Force</p> <p>Speaker Biography:</p> <p>Nathan is an executive member of the RNZAF Quality Management Office, responsible for monitoring and improving operational safety and quality throughout the NZDFs flying units.</p> <p>Nathan joined the RNZAF in a territorial capacity in 2003, while completing a Bachelor of Science Degree (Computer Science) at Auckland University, then graduated as a pilot in 2007 (Airtrainer, Kingair). He joined 40 Squadron and flew as a co-pilot on the C-130, and in 2011 switched to the B757, gaining his captaincy the following year. In 2015 Nathan completed a Flying Instructor's Course, the first utilising the Texan T-6 aircraft. Following a period of consolidation as a flying instructor, Nathan was appointed the Base Ohakea Flight Safety Officer, and was next posted to lead 14 Squadron as the Officer Commanding for three years, responsible for maintaining the RNZAF throughput of trainee pilots, notably during the "covid" years. In 2022 Nathan was appointed to a project role, tasked with establishing a Safety Management System for the realigned RNZAF</p>
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	<p>Military Air Operator, under NZDF Defence Aviation Rules. Over the past two years, and while still working full-time in the Quality Office, Nathan has been working towards an Executive MBA with Massey University and is now just weeks away from finishing.</p>
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Presentation Title:

Work Together, Stay Apart – A campaign informed by data.



Charlotte Brogan, Senior Interventions Analyst, Regulatory Interventions Team, CAANZ

Speaker Biography:

Charlotte Brogan has been with the Civil Aviation Authority of New Zealand since 2013. Charlotte was a member of the Safety Management Systems Implementation Team that developed the Safety Management System regulatory requirements, guidance, and training for the implementation of SMS into the NZ aviation industry.

Charlotte was the NZ lead for the Safety Management International Collaboration Group from 2019-2022, representing NZ on the SMICG steering committee and leading the project group that developed the Safety Managers Role in SMS guidance paper.

In late 2020 Charlotte joined the Regulatory Interventions Team at the CAA as a Senior Interventions Analyst. Charlotte is the current Campaign Lead for the Work Together, Stay Apart Safety Campaign.

Work Together, Stay Apart is a campaign focused on reducing airborne conflict events at unattended aerodromes. The campaign is an example of the regulator being risk based and intelligence led by using safety data to inform the intervention design and associated outputs of the campaign.

The campaign is in its final months and Charlotte will give an overview of the campaigns design and outputs.