



# RPAS in Australian Skies 2019

## Conference Program

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## WEDNESDAY JULY 17, 2019

**0800** Registration & Barista Coffee

### SESSION ONE – GOVERNMENT POLICY

**0900** Welcome Address

Dr Reece Clothier  
(AAUS)

**0910** Policy and Regulation for RPAS as an  
Emerging Aviation Technology

Simon Moore  
(Dept Infrastructure, Transport,  
Cities and Regional Development)

**0935** Safely Managing Australia's Rapidly  
Changing Skies

Michelle Bennetts  
(AirServices Australia)

**1000** Stats and facts – Understanding the role  
of the ATSB in improving RPAS safety

Greg Hood  
(ATSB)

**1025** Panel discussion – Developing Government  
Policy to enable an Australian RPAS Industry.

Simon Moore, Paul Stoddart,  
Greg Hood.

**1055** **Morning Tea**

### SESSION TWO –REGULATORY DEVELOPMENT

**1125** The next steps – Cora, SORA, Pyka & Beyond

Mark Houston  
(NZ CAA)

**1155** BVLOS Operations in Australia – A Regulators  
Perspective

Simon Denby  
(CASA)

**1225** Towards Routine Global, Commercial RPAS  
Operations

Brandon Suarez  
(General Atomics)

**1255** **Lunch**

### SESSION THREE – AIRWORTHINESS & SAFETY

<b>1345</b>	Facing the Challenges of RPAS Airworthiness Certification and Airspace Integration	Michael Allouche (IAI)
<b>1415</b>	Geofencing, Identification and Tracking Solutions	Jean-Guy Blete (Thales)
<b>1445</b>	Elevating Safety: Protecting the Skies in the Drone Era	Adam Welsh (DJI)
<b>1515</b>	<b>Afternoon Tea</b>	

### SESSION FOUR – DEFENCE & BEYOND

<b>1545</b>	Defence UAS Regulations for the Future	WGCDR Nick Dyce-McGowan & MAJ Glenn Pinnuck (DASA)
<b>1615</b>	Air Force Considerations regarding Integration of Large RPAS into Australian National Airspace	SQNLDR Ian Taylor (RAAF)
<b>1645</b>	Delivering the Infrastructure of the Future	Clem Newton-Brown (Skyportz)
<b>1715</b>	<b>Conclude Day 1</b>	

<b>1830</b>	<b>AAUS Gala Dinner</b> <b>National Convention Centre, Ballroom</b>
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## THURSDAY JULY 18, 2019

**0800** Registration & Barista Coffee

### SESSION FIVE – TRAINING FOR THE FUTURE

<b>0900</b>	The Winds of Change: Navigating the Future Legal Environment for Drones	Michael Nas (Bennett + Co)
<b>0920</b>	Training Requirements for Future RPAS Operators	Wayne Condon (UAV Training Australia)
<b>0940</b>	Large Student MRUAS Training Programs – Successes and Challenges	David Mann (UAVAIR)
<b>1000</b>	Enabling RPAS Organisations to perform into the Future	Ross Anderson & Rowan Kimber (Aviassist)
<b>1020</b>	Panel Discussion – Skilling our future RPAS Operators	Michael Nas, Wayne Condon, Ross Anderson & David Mann
<b>1040</b>	<b>Morning Tea</b>	

### SESSION SIX – LAAM & UTM

<b>1110</b>	The NZ UTM Experience	Trent Fulcher (Airshare)
<b>1140</b>	Low Altitude Airspace Management – Enabling Safe Growth of the RPAS Industry	Frank Erb (Thales)
<b>1210</b>	An Alternate, Decentralised UTM Architecture	Rory Houston (Skyy Network)
<b>1240</b>	<b>Lunch</b>	

## SESSION SEVEN – ENABLING TECHNOLOGIES

<b>1330</b>	The EyeSpy See and Avoid Prototype System – Initial Findings	Maurice Gonella (AVT Australia)
<b>1400</b>	Using Artificial Intelligence for Drone Recognition	Brooke Tapsall (Drone Alert & AGICS)
<b>1430</b>	Mode S Transponders and ADS-B supporting Airspace access and UAV Applications	Greg Dunstone (Uavionix Australia)
<b>1500</b>	<b>Afternoon Tea</b>	

## SESSION EIGHT – BVLOS, TECHNOLOGIES & LEGAL

<b>1530</b>	IoT Solution for Emerging Requirement of ADS-B in the UAS Space	Eric Freund (Simbiant)
<b>1600</b>	Safe and Secure Solution for Long Range Surveillance and Inspection	Jean Guy Blete (Thales)
<b>1630</b>	The Legal Challenges Hovering over Operators	Jane Heatley & Kristina Cavanna (Norton White)
<b>1700</b>	Wrap up	
<b>1705</b>	<b>Conference end</b>	

## SPEAKER PROFILES



**Simon Moore** is General Manager of Air Traffic Policy at the Department of Infrastructure, Regional Development and Cities. His responsibilities include the development of the whole-of-Government approach to RPAS. Simon previously worked at the Australian Maritime Safety Authority, Department of Foreign Affairs and Trade, and the Department of Prime Minister and Cabinet.



**Michelle Bennetts** is Executive General Manager, Customer Service Enhancement (CSE). Michelle is responsible for developing and driving an AirServices Strategy Work Program to position the business to respond to unprecedented disruptions in the aviation sector driven largely by technological innovations and globalisation. Ensuring that air travel remains safe, secure, efficient and environmentally responsible while also facilitating the integration of RPAS and accommodating the doubling of air traffic movements over the next ten years is a key focus of the program.



**Greg Hood** is the Chief Commissioner of the Australian Transport Safety Bureau (ATSB). Greg has almost 40 years' experience in the transport industry, beginning his career as an air traffic controller in the RAAF. Greg has since had a wide range of operational, training and leadership roles across the civil aviation industry. Greg has had the unique experience of acting as Director of Aviation Safety at CASA and acting Chief Executive of AirServices Australia, before his appointment as Chief Commissioner and CEO at the ATSB.



**Mark Houston** is Senior Technical Specialist Unmanned Aircraft at Civil Aviation Authority of New Zealand. Commercial pilot, Flight Instructor, Flight Examiner, Agricultural pilot, Airline pilot, UA Pilot- multi-rotor, RMax, ParkFlyer



**Simon Denby** has been involved in the aviation industry in one way or another for most of his working life, both in the military and civil sectors. Joining CASA some 14 years ago Simon has held several senior roles in the organisation and commenced a dedicated RPAS role in 2014.



**Brandon Suarez** currently serves as Technical Director for UAS Civil Airspace Integration for General Atomics Aeronautical Systems, Inc. (GA-ASI), where he leads the company's effort to integrate Remotely Piloted Aircraft Systems (RPAS) into domestic, foreign and international airspace. GA-ASI manufactures, supports and operates a variety of proven, reliable, RPAS for military and commercial applications worldwide. In his current role, Mr. Suarez leads a multi-disciplinary team working to solve the technical and regulatory challenges associated with gaining unfettered access to civil airspace and achieving safe, secure and efficient global operations.



**Michael Allouche** viewed as a worldwide expert, has accumulated 43 years of professional experience, namely in the field of both manned aircraft certification (Airbus) and unmanned aircraft certification, at Israel Aerospace Industries since 1992, as UAS Airworthiness Manager. Thanks to his active role in the UAS standardisation process, he was recently granted the EUROCAE 2019 life-time achievement award.



**Jean-Guy Blete** has 30 years in Thales, which started in the naval domain: cruise missiles, sonar and torpedoes systems. He spent 4 years in Australia as Collins submarines Program Manager before taking the lead role with the aeronautics navigation products line. Since 2011, Jean-Guy has overseen the UAS avionics business. He is also an active contributor to UAV regulations and is an experienced drone pilot.



**Adam Welsh** is Asia Pacific head of public policy for DJI. He has worked on policy and regulatory issues within the Asia region for more than 18 years. His work has spanned emerging technology issues including cloud computing, data privacy, and the sharing economy. Mr. Welsh's work for DJI spans issues such as regulations governing the use of UAVs for civilian use, to integrating UAVs into the national airspace in a safe manner, to cybersecurity issues.



**Clem Newton-Brown** is a lawyer and planning consultant who also has a political background as a former Deputy Lord Mayor of Melbourne and Member for Prahran in the Victorian Parliament. He is the founder of Skyportz, a business which aims to establish a network of landing sites across Australia for future use by Vertical Take-off and Landing aircraft. The first Skyportz is underway with an application to the Victorian Government to replace the existing helipad on the Yarra River with a multi-purpose facility.



**WGCDR Nick Dyce-McGowan** has around 30 years of experience in Defence Aviation including Air Traffic Control, Aviation Operations and Training, Airworthiness and Regulation. He is currently serving as the Deputy Director of Flight Operations Regulation within the Defence Aviation Safety Authority.





**MAJ Glen Pinnuck** has served over 30 years in the ADF with the majority being within Military Aviation Engineering, System Safety and Accident Investigation. He currently occupies the appointment of the Staff Officer for the Operational Flight Regulations within the Defence Aviation Safety Authority, including the regulatory requirements for Unmanned Aerial Systems.



**SQNLDR Ian Taylor** joined the RAAF in 1997 as an Aerospace Engineering Officer. His roles have included Operational Maintenance management, Design Engineering support, Lead Auditor, and a posting to the US as the AP-3C liaison to the US Navy. He is currently the Deputy Chief Engineer of the ISR SPO, responsible for Engineering support to Air 7003 (MQ-9) and Air 7000 Ph1B (MQ-4C) Acquisition projects.



**Michael Nas** is a Principal Associate at Perth law firm, Bennett + Co, practising in commercial litigation. Michael is part of Bennett +Co's Defence, Aerospace & Logistics team and holds a Master of Laws (by Research) relating to global drone regulation. He is a member of the AAUS and sits on the Perth committees of the Royal Aeronautical Society and Aviation Law Association of Australia & New Zealand.



**Wayne Condon** is the CEO for UAV Training Australia with current appointments within Aviation & RPAS operational safety, licensing, education, training & management areas. These include: CASA's Part 101 RPAS working group, CASA's Learning and Development panel and the RPAS Service Delivery Transformation Program, Aviation RPAS Technical Advisory Committee (AIS), Lead Lecturer (Aviation Security, Risk and Terrorism) encompassing RPAS (Griffith University), QLD Government RPAS Training Advisory Group, Senior Instructor RPAS (Drone) Safety Course (Central Queensland University) and Chief Remote Pilot and Chief Instructor for the Certificate III in Aviation (Remote Pilot) currently with 350 students.



**Ross Anderson** is the Managing Director and Chief RPAS Instructor at AviAssist. Ross Anderson has a passion for creating business efficiency and safety gains through remotely piloted aviation. Ross has a Bachelor of Science (Aviation) and developed one of the first custom drone training courses to be recognised by the Civil Aviation Safety Authority (CASA).



**Rowan Kimber** is a Regulatory and Operations Specialist with leading RPAS consultancy and training firm, AviAssist. He has extensive aviation industry experience working in a variety of management positions and flight crew roles. Rowan's industry experience is backed by postgraduate studies in law with a strong focus on domestic and international aviation law. In 2016 Rowan was honoured with the award of Australian Aviation Lawyer of the Year.



**David Mann** has been in the aviation industry for more than 25 years. His career started as a helicopter engineer, before becoming an aeromedical helicopter aircrew officer flying operationally for more than ten years. As the General Manager of CareFlight's Northern Territory aeromedical operation, David managed fixed-wing and helicopters operations across the Top End. David joined UVAIR in July 2018. UVAIR is one of Australia's premiere RPAS training organisations that currently contracted to the Australian Army for Multi-Rotor UAS training.



**Trent Fulcher**, founder and CEO of Airways New Zealand UTM subsidiary, AirShare. AirShare is New Zealand's national UAV Traffic Management service, which provides the infrastructure, technology and services to support safe and commercially viable UAV operations. Trent is a strategy and innovation professional with a track record of developing, influencing and executing strategy in disrupted sectors, while employed by Airways Corporation, Kiwibank, RBS Bank, PwC and Microsoft.



**Frank Erb** has extensive global aviation experience with more than 25 years of technical and leadership roles in the industry. Currently, he serves as Thales Director, Digital Aviation Market Development, Asia Pacific, and is responsible for leading the digital transformation of the aviation industry in the region and the development of turnkey platforms to enable the growth of the drone industry while maintaining a safe and efficient environment for manned and unmanned vehicles.



**Rory Houston** is a 20 year aviation veteran with 3500 flight hours across Fast Jet, Air Transport and military Long Endurance drone operations including active service in Afghanistan. Rory is now focused on Skyy Network which is building decentralised networks for aviation, having previously founded startups in technology & property development.



**Maurice Gonnella** has been in the UAS industry since 1996. He began his career in Aerosonde UAS engine development and has worked in flight operations, production, business development and program management. Currently he works at AVT Australia (formally UAV Vision), a gimbal designer and manufacturer, as the VP of Australian Operations.



**Brooke Tapsall** has been a professional in the spatial science industry for 16 years, working around the world before establishing companies and initiatives which provide valuable services to the Drone Industry. Ms Tapsall is the founder and CEO of DroneALERT – an online rapid drone reporting platform and Managing Director of AGICS – a drone service and consultancy provider and she is a qualified drone operator providing drone imagery to Government, research and private sectors.



**Greg Dunstone** retired from Airservices Australia in 2017 after forty-six years as a specialist engineer in air traffic control automation and surveillance systems. Initially a radar engineer, he was involved in the deployment of the first digital ATC system in Australia, the introduction of monopulse SSR, before leading the ATC automation aspects of the fully integrated paperless ATC system (TAAATS) in the 1990s and Maestro Arrival flow management system before the Sydney Olympics. Greg initiated and led the Australian ADS-B program from concept development, initial trials in 2004, through to nationwide deployment and establishment of the Australia ADS-B equipage mandates.



**Eric Freund** lives to invent and discover new stuff! After graduating from the University of South Australia, he worked as an RF engineer with Codan before moving on to a new career that allowed him to explore the world and experience other engineering disciplines. A stint in Antarctica followed by globetrotting in the oil industry allowed Eric to vastly increase his engineering horizons. After a number of years as a consultant, Simbiant gave him the opportunity and latitude to develop his own UAV program, culminating in the development of one of Australia's largest indigenously-built UAVs.



**Jayne Heatley** joined Norton White in 2009. For over 10 years, she has specialised in corporate and commercial transactions and projects in Australia and overseas. Her experience includes acting for clients in the aviation, airports and aerospace industries, advising on aviation and airports regulation, acting for Government and industry clients on a range of Defence land, air, sea and space programs. She is experienced in the ASDEFCON suite of contracts and advising both industry and Government clients in relation to Government tenders and procurement processes.



**Kristina Cavanna** has been practising in the Aviation team at Norton White since 2015. Working for both the Commercial and Litigation Aviation teams at Norton White on matters involving: - international carriers in passenger claims which have been litigated in Australia; - transactional work including the acquisition and disposal of Aircraft and aviation businesses, leasing and other commercial transactions; Kristina is currently working in the Commercial & Corporate team.

# **AUTONOMY IN THE MARITIME DOMAIN AT PACIFIC 2019**



CONFERENCE HELD ON 9TH OCTOBER 2019,  
INTERNATIONAL CONVENTION CENTRE, SYDNEY  
FOLLOWED BY NETWORKING DINNER

