





UWA DEFENCE AND SECURITY INSTITUTE

MASTERCLASS SERIES AUKUS: PILLAR II

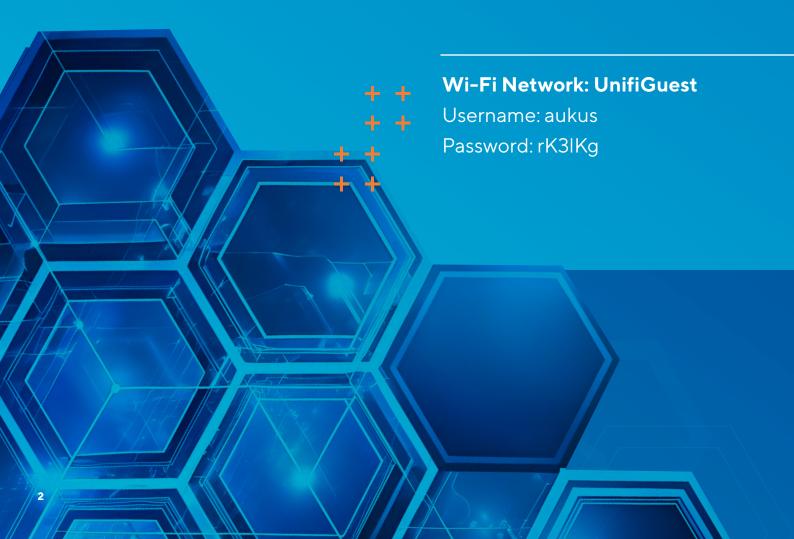
Advanced Capabilities



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WELCOME FROM THE CHAIR

Hello, and a warm welcome to all our distinguished speakers and participants for the UWA Defence and Security Institute Masterclass Series: AUKUS Pillar II Advanced Capabilities.



We are especially grateful to those of you who have travelled from across Australia and internationally to be with us today. Your presence is truly appreciated, and we are excited to share this important event with such a diverse and engaged audience.

This one-day Masterclass, developed in collaboration with Defence Australia, DFAT, and the State Government, is designed to provide a deep dive into the technologies and innovations that will shape Australia's future under AUKUS Pillar II. Our focus today is on advanced capabilities, including cyber, AI, quantum, and autonomous systems—key elements in building the strategic technological edge necessary for national security.

With its strong industrial base in energy, resources, and innovation, unique location and advanced expertise, WA is well-positioned to play a central role in driving these cutting-edge technologies and fostering critical partnerships that will ensure Australia's competitive advantage in defence.

This Masterclass will explore how WA can continue to develop its capabilities and infrastructure to lean into AUKUS Pillar II, highlighting opportunities for industry, government, and academia to collaborate and lead in this space. Through keynote addresses, panel discussions, and case studies, we aim to equip participants with the insights and strategies needed to capitalise on these opportunities.

Launched in 2021, the UWA Defence and Security Institute is committed to advancing Western Australia's defence and security expertise. We are proud to host this important event here in Perth, a strategic hub in the Indo-Pacific region, and we look forward to engaging with you throughout the day.

Thank you again for joining us for the UWA DSI AUKUS Masterclass Series: Pillar II Advanced Capabilities. We look forward to an insightful and impactful day together.

The Honourable David Johnston

Chair

UWA Defence and Security Institute



WEDNESDAY 9 OCTOBER 2024

8:00am – 8:30am REGISTRATION I TEA AND COFFEE				
8:30am – 8:40am	WELCOME TO COUNTRY	Dr Richard Walley OAM		
8:45am – 8:50am	MASTERCLASS SERIES WELCOME AND OVERVIEW	The Hon. David Johnston Chair, UWA Defence and Security Institute		
8:50am – 9:00am	OFFICIAL WELCOME	The Hon. Paul Papalia CSC MLA, Minister for Police; Corrective Services; Racing and Gaming; Defence Industry; Veterans Issues		
SESSION 1: THE AUKUS ALLIANCE AND PILLAR II				
Session Chair: Sally Dawkins, WA State Director, Department of Foreign Affairs and Trade				
9:00am – 9:30am	KEYNOTE ADDRESS An overview of AUKUS Pillar II	Stephen Moore , First Assistant Secretary AUKUS Advanced Capabilities, Defence Australia		
9:30am – 9:50am	KEYNOTE ADDRESS UK Perspective	Consul General Maria Rennie , British Consulate General Perth		
9:50am – 10:05am	KEYNOTE ADDRESS U.S. Perspective	Lu Zhou , Political-Economic and Public Affairs Officer, U.S. Consulate General Perth		
10:05am – 10:25am	KEYNOTE ADDRESS Australian Department of Foreign Affairs and Trade Perspective	Paul Myler , Former Deputy Chief of Mission, Australian Embassy, Washington D.C		
10:25am – 11:00am	MORNING TEA			



• Rachel Geddes, Director, Director, Strategic Engagement & Communications, Department of

• **Emily Hall**, Assistant Secretary, Defence Export

Controls, Department of Defence

Defence

SESSION 2: DISRUPTIVE TECHNOLOGY/ADVANCED CAPABILITIES/SKILLED WORKFORCE				
Session Chair: The Hon. David Johnston, Chair, UWA Defence and Security Institute				
11:00am – 11:20am	KEYNOTE ADDRESS Defence Force Vision	Air Commodore Guy Adams , Director General Data and Systems Design, Force Integration Division (virtual keynote)		
11:20am – 11:40am	KEYNOTE ADDRESS Shaping the Future of Defence with Advanced Technologies	Rear Admiral Lee Goddard CSC , Executive Director, Australian Missile Corporation, and a Non-Executive Director, AUSTAL, the Commonwealth Superannuation Corporation, and OCIUS Technologies		
11:40am – 12:20pm	PANEL DISCUSSION: How to shift the dial Moderator: Professor Gia Parish Director, UWA Defence and Security Institute	 Panellists include: Dr John Chappell, Chief Executive Officer, SciTech Major General (rtd) Gus McLachlan Senior Advisor, Defence & National Security, University of Sydney Jo Hawkins, Director, Start-up WA 		
12:20pm – 12:30pm	COLLABORATION MINI CASE STUDY 1	Patrol Boat AutonomyAustalGreenroom Robotics		
12:30pm – 1:10pm	LUNCH			
SESSION 3: NUTS AND BOLTS				
Session Chair: Professor Gia Parish, Director, UWA Defence and Security Institute				

PANEL DISCUSSION: AUKUS Pillar II Framework

The Hon. David Johnston

Chair, UWA Defence and Security

Moderator:

Institute

1:10pm - 1:45pm



	PANEL DISCUSSION: Making it happen in reality	Panellists include: • Matthew Leach, Managing Director and Partner, Boston Consulting group • David Tynan, Executive Manager, Defence and			
1:45pm – 2:20pm	Moderator: The Hon. David Johnston Chair, UWA Defence and Security Institute	 David Tyrian, Executive Manager, Defence and National Security Partnerships, CSIRO Professor Christophe Gaudin, Director, UWA Oceans Institute Rebecca Tomkinson, Chief Executive Officer, The Chamber of Minerals and Energy of Western Australia (CME) 			
2:20pm – 2:30pm	COLLABORATION MINI CASE STUDY2	 Hyperbaric CUF Matrix Composites & Engineering Subsea Innovation Cluster Australia Baker Hughes Department of Jobs, Tourism, Science and Innovation 			
2:30pm – 2:50pm	AFTERNOON TEA				
	SESSION 4: CONNECTING WA IN	TERNALLY AND EXTERNALLY			
Session Chai	Session Chair: Linda Dawson, Deputy Director General, Industry Science Innovation, JTSI				
2:50pm – 3:30pm	PANEL DISCUSSION: Primes Moderator: Peta Arbuckle Executive Director, Defence West	 Panellists include: Scott Elson, Director of Business Development, L3 Harris Glenn Callow, Chief Technology Officer, Austal Tim Grabert, Test and Evaluation Capability Lead, Nova Systems Mark Roberts, Sales Manager Uncrewed Platforms, Kongsberg Discovery 			



3:30pm – 4:05pm	PANEL DISCUSSION: WA Innovators Moderator: Linda Dawson Deputy Director General Industry, Science and Innovation, Department of Jobs Tourism Science and Innovation	 Panellists include: Xavier Orr, Co-Founder, Advanced Navigation Peter Baker, Director of Growth, Greenroom Robotics Joel Nevin, Managing Director, Blacktree Technology Pty Ltd Michele Clement, Director, Defence Science Centre Paul Colley, Chief Executive Officer, Total Marine Technology Pty Ltd
4:05pm – 4:40pm	PANEL DISCUSSION: Capital/Financing Moderator: Charlie Gunningham	 Panellists include: Pia Turcinov, Director and General Partner, FundWA Mark Stevens, Founder and Managing Director, Arican Sophie Mayo, Policy Analyst, Office of the General Partners, Salus Ventures Oscar Leslie, Managing Partner, Phase Alpha VC
4:40pm – 4:55pm	KEYNOTE ADDRESS	Consul General Siriana Nair, U.S. Consulate General Perth
4:55pm – 5:00pm	CLOSING REMARKS Summary & outlook	The Hon. David Johnston Chair, UWA Defence and Security Institute
5:00pm – 6:00pm	NETWORKING RECEPTION	

ACKNOWLEDGEMENTS

WITH SUPPORT FROM:









Royal Australian Navy Band

We are fortunate to have the Royal Australian Navy Band performing during the networking drinks hosted by Aurora. The following band members will be playing on the day:

- Able Seaman Musician Harry Josland trumpet
- Leading Seaman Musician Daniel Khaimov alto saxophone
- Able Seaman Musician Carl Harper trombone
- Able Seaman Musician Angelo Ravina keyboard
- Able Seaman Musician Laura Kendell singer





AIR COMMODORE GUY ADAMSDirector General Data and Systems
Design, Force Integration Division

Air Commodore Arndell Guy Adams was born in Moree, NSW, in 1972 and grew up on farms in western NSW and the North Coast. He joined the Australian Defence Force Academy in 1991 and graduated from Sydney University with a Bachelor of Aeronautical Engineering in 1994. His early career included roles as Maintenance Officer at 75 Squadron and in the Directorate of Personnel.

In 1999, he completed the Flight
Test Engineers course in the UK
and earned a Master of Science
in Flight Dynamics from Cranfield
University. Returning to Australia, he
worked on the RAAF fast jet fleet,
overseeing major aircraft upgrades,
including Hornet and F-111 systems.
He held several senior roles, including
Program Engineering Manager, and
was promoted to Air Commodore in
2023, becoming Director General
Data and Systems Design within the
Force Integration Division.

Air Commodore Adams enjoys aviation, photography, skiing, and good wine. He has run a marathon and walked the Kokoda Track. He is married to Air Commodore Jules Adams.



PETA ARBUCKLEExecutive Director, Defence West

Peta Arbuckle was recently appointed Executive Director Defence West, a career public servant serving the Commonwealth and Western Australian governments over 25 years.

Peta's career includes the Department of Defence - International Policy Division and the Defence Intelligence Organisation. Her overseas assignments included missions to Bougainville, Cambodia and a posting to Papua New Guinea as First Secretary Defence, the Department of Education - postings to Taiwan and Japan (with responsibility for the Republic of Korea). Peta's experience includes 10 years at the Department of Premier and Cabinet, including Deputy Chief of Staff in a ministerial office. Peta assumed the role of State Director Royal Visit during the Commonwealth Heads of Government Meeting (CHOGM) in 2011 and was made a Member of the Royal Victorian Order by Her Majesty, The Late Queen. Peta has also served on various federal government taskforces. She holds a Bachelor of Economics and Politics (Honours) degree from Monash University and a Masters of Strategic Studies and International Relations from the Australian National University.



PETER BAKER
Director of Growth,
Greenroom Robotics

Peter Baker is the Director of Growth at Greenroom Robotics, Australia's leader in maritime autonomy and Al-driven solutions. With a focus on advancing the commercialisation of cutting-edge autonomous technologies, Peter aims to enhance defence and maritime capabilities in support of AUKUS initiatives. His career spans the development and deployment of maritime autonomous systems across both undersea and surface domains, from R&D to fullscale operations, bringing innovative robotics solutions to complex challenges.

Peter's expertise extends across the entire lifecycle of autonomous systems, from initial concept and prototyping to field deployment, making him a key contributor to the evolving landscape of maritime defence technology. He is passionate about leveraging Al and autonomy to drive strategic advancements in defence and beyond.

Peter holds a Masters in Business Administration from the University of Western Australia.



GLENN CALLOWChief Technology Officer, Austal

Glenn graduated in the UK with a Bachelors degree in Computer Science from the University of York and an Engineering Doctorate with Loughborough University. Glenn's doctoral thesis was focused on novel techniques to improve the Systems Engineering of increasingly Autonomous Systems. Whilst in the UK, Glenn began his career in the defence sector with BAE Systems at their Advanced Technology Centre (ATC). At the ATC Glenn held a number of scientist positions, becoming Technology Lead for Intelligent Autonomous Systems and Advanced Information Processing in 2010. During his time at BAE Systems, Glenn and his team developed numerous novel robotic and data processing systems for defence customers.

In 2023 Glenn joined Austal as Chief Technology Officer. Glenn's role at Austal oversees a number of technology areas, including:

- Australasia and Corporate ICT services and support,
- Austal Group's in-house Research and Development,
- Sales and Support of Austal Digital Technology products, such as the Marinelink Control & Monitoring suite and the LUSI Asset Management solution.



DR JOHN CHAPPELLChief Executive Officer, SciTech

Dr John Chappell is the CEO of Scitech, Western Australia's dedicated STEM engagement organisation. Through the Scitech Discovery Centre, travelling Scitech exhibitions, STEM experiences delivered to regional and remote areas of the state, and professional learning programs that support teachers, John is responsible for fulfilling Scitech's purpose of encouraging all Western Australians to engage in science, technology, engineering and mathematics.

With a doctorate in chemistry from the University of Queensland, the early part of John's career was as a research chemist in the resources sector. He progressed quickly into senior positions due to his leadership abilities, before transitioning to the Australian Institute of Marine Science (AIMS) in 2011. As AIMS Chief Operating Officer, John was responsible for securing new funding, improving organisational safety, developing crucial stakeholder relationships within Government and corporate sectors, and delivering organisational and financial success.



MICHELE CLEMENT
Director, Western Australian Defence
Science Centre (DSC)

Michele Clement is the Director of the Western Australian Defence Science Centre (DSC) within the Department of Jobs, Tourism, Science and Innovation. The DSC aims to build strong collaborations across Defence, universities and industry, facilitating defence-relevant research and technology connections that supports defence and national security outcomes. It supports the commercialisation of defence-related research and cultivates a competitive local defence industry that will diversify and strengthen the State's economy and create new jobs.

Prior to this Michele was the Director Innovative Science, in the Department of Commerce; supporting research and innovation and promoting science and technology as major drivers of Western Australian economic, social and environmental growth. Michele spent nine years working for the Commonwealth in the then Department of Innovation, Industry, Science, Research and Territory Education undertaking both program delivery and policy roles and also managed the Department's budget process involving the securing of federal funding for a number of new programs and initiatives.

Michele has a background in banking and finance, particularly investment in small technology and bio-technology businesses. Michele holds a Masters in Business Administration.



PAUL COLLEYChief Executive Officer,
Total Marine Technology Pty Ltd

Paul is a founder and the CEO of Total Marine Technology which has a 23-year track record of developing leading technology in Remotely Operated Vehicles and intervention tooling for the offshore energy and terrestrial mining sector. TMT have the only Australian developed worldclass ROV system capable of reaching depths greater than 6000m for fibre optic cable repair tasks. TMT employs over 200 people and has active offices in the UK, Malaysia, and Brazil. He has a passion for high tech manufacturing in Western Australia and exporting home grown knowledge and capability to the world. He sits on several boards and is active in the not-for-profit sector. In his spare time Paul runs kite making and flying community workshops.



SALLY DAWKINSDirector, Department of Foreign
Affairs and Trade, Western Australia
State Office

Sally Dawkins commenced as Director in January 2022. In this role Sally leads the Department's engagement with its diverse stakeholders in Western Australia, including government, business, academia and the community. Sally has served overseas with the Department in Geneva (United Nations), Paris, West Africa and most recently in Ankara, as Deputy Head of Mission at the Australian Embassy in Turkey. In Canberra, Sally has worked on a number of initiatives to support Australian businesses overseas, including the Extractive Industries Transparency Initiative (EITI), the ASEAN-Australia-New Zealand Free Trade Agreement, the Africa Down Under mining conference, and the Shanghai World Trade Expo. She has also worked as an Adviser to the Minister for International Development and the Pacific.

In 2017-19, Sally managed government relations and social investment for Newcrest Mining in Papua New Guinea, based in Port Moresby. In this role she sat as a Director of Newcrest's subsidiary corporations, and represented Newcrest at the PNG Chamber of Mines & Petroleum.

Sally graduated with Honours in Bachelors of Laws and Arts from the University of Western Australia, and is an admitted solicitor. She speaks fluent French.



LINDA DAWSON

Deputy Director General Industry, Science and Innovation, Department of Jobs Tourism Science and Innovation

Linda Dawson is a senior executive with more than 25 years' experience working in large Australian and multinational organisations across the resources and utilities sectors. Over Linda's career she has led corporate services, community development, human resources, health safety and environment, corporate affairs and operational functions. Linda currently works for the Department of Jobs Tourism Science and Innovation in the Western Australian Government, as Deputy Director General Industry Science Innovation.

Linda has a strong belief in equality and respect for all in society, learning from our First Nations people, empowering women and giving back to the community. She has been a Chair of the MCA Indigenous Community of Practice, mentor with WIMWA and a past Chair of the CMEWA Pilbara Regional Council.

Linda is currently a Board Member of Workpower, Vice Chairperson of Midland Women's Health Care Place and a Member of the Sir Charles Gardiner and Osborne Park Hospital Human Research Ethics Committee.





As a proud Western Australian, Scott Elson, is currently the Director, Business Development for L3Harris Integrated Mission Systems Australia, a subsidiary of L3Harris Technologies, Inc. based in Perth, Australia. Scott has been with the company for over 20 years, which was a SME called Nautronix at the time.

Current duties include the strategy and sovereign development of maritime research and development projects which include underwater acoustic communications, coastal security monitoring software and secure communications. Recent focus has been on technology transfer within L3Harris under AUKUS and alignment with Australian projects related to submarine, autonomy and maritime surveillance.



PROFESSOR
CHRISTOPHE GAUDIN
Director, UWA Oceans Institute

Christophe is an offshore geotechnical engineer and scientist specialising in advancing marine renewable energy through multidisciplinary approaches. He has held several leadership roles at UWA, including Head of the Oceans Graduate School, Director of the National Geotechnical Centrifuge Facilities, Director of the Centre for Offshore Foundation Systems, and founding Director of Marine Energy Research Australia.

In his current role as Director of the UWA Oceans Institute, he supports industry, scientists, and government in developing cutting-edge offshore renewable energy technologies and shaping the future energy landscape in Australia and globally.

Christophe's work spans multiple ocean and marine sectors and he is skilled at bringing multi-sector stakeholders together to tackle the scientific and societal challenges facing our oceans today.



RACHEL GEDDES
Director Strategic Engagement
& Comms, Advanced Strategic
Capabilities Accelerator, Defence

Rachel commenced as Director of Strategic Engagement and Communications at the Advanced Strategic Capabilities Accelerator (ASCA) in July 2023, and is responsible for managing key partnerships for the organisation, in addition to managing the communications for all ASCA activities. Prior to that, she served in the department as the Governance and Policy Manager for the Next Generation Technologies Fund, where she supervised over 100 research and development projects occurring across 11 critical themes.

Prior to those roles. Rachel worked at Defence West, WA Government as the Manager and then acting Director for the Defence Industry Development and Veterans portfolio, making her intimately aware of the key strengths and capabilities WA industry and universities can contribute to Defence. Rachel has spent the past 10 years working at the intersection of innovation and capability in the defence sector, through various positions. Her engagement with AUKUS Pillar II comes through ASCA's supporting role in accelerating aspects of the advanced capabilities, most recently in the AUKUS Innovation Challenge Series.



REAR ADMIRAL LEE GODDARD CSC

Executive Director, Australian Missile Corporation, and a Non-Executive Director, AUSTAL, the Commonwealth Superannuation Corporation, and OCIUS Technologies.

Lee Goddard is the Executive Director of the Australian Missile Corporation, and a Non-Executive Director of AUSTAL, the Commonwealth Superannuation Corporation, and OCIUS Technologies. He also an Advisor to the Minderoo Foundation, SALUS Ventures, and SARONIC Technologies, as well as the Chairman (Race Director) of the Sydney to Hobart Yacht Race. He was previously a Director of The Whiskey Project Group. Prior to assuming his current industry roles, he was dual appointed as Commander, Maritime Border Command and Operation Sovereign Borders, responsible for the law enforcement and operational oversight of Australia's maritime economic and security zones covering more than 10 percent of the earth's surface. This was preceded by a twoyear secondment into the Department of the Prime Minister & Cabinet. On promotion to Commodore in 2014 he assumed the role of Commander Surface Fleet, commanding 18 major warships, and he has Commanded warships and joint-agency Taskforce's at every senior Navy rank from Commander to Rear Admiral. He continues to serve as an active reserve officer following 34 years full time service up until January 2021, and in 2023 he conducted the Chief of Defence Force Leadership Review.



TIM GRABERTTest and Evaluation Capability Lead, Nova Systems

Tim Grabert is the test and evaluation capability lead at Nova Systems Australia. Tim previously served as an officer in the Australian Army as a rotary wing flight test engineer which included a posting as the flight commander overseeing helicopter flight test activities for the Australian Army. He is currently leading the rollout of the Nova Systems Test & **Evaluation Centre of Excellence** where he is responsible for identifying the essential skills, knowledge and tools required by the next generation of test & evaluation practitioners for Australian industry....[read more] He is currently managing research and development projects in the fields of model-based systems engineering, operational experimentation and the adoption of AI, the use of synthetic environments for test & evaluation, and mission engineering.



CHARLIE GUNNINGHAM

Charlie has spent more than 25 years in Perth's innovation ecosystem. He's been a startup founder, angel investor, media commentator and university lecturer. Originally from the UK, he worked in Singapore before arriving in Perth in the late 90s. He graduated top of UWA Business School with an MBA and co-founded property listings site aussiehome.com in 1999, which was acquired by REIWA in 2010. He then ran reiwa.com, went on to be CEO of Business News, run Startup News, work for a \$485M federal government startup fund and run the WA government's New Industries Fund programs. He has recently been appointed to the WA Government's Innovation Advisory Board.



EMILY HALLAssistant Secretary, Defence Export Controls, Department of Defence

Ms Emily Hall commenced as the Assistant Secretary Defence Export Control in the Department of Defence on 5 October 2023.

Prior to joining Defence, Emily held a variety of national security roles across the Commonwealth Public Service, including within the Attorney-General's Department, the Department of the Prime Minister and Cabinet and the Home Affairs portfolio. She holds a Masters in Laws (International Law) from the Australian National University and is admitted to practice in the Supreme Court of Victoria.

Emily is married and has three children.



JO HAWKINSDirector, Start-up WA

Jo is a deep tech enthusiast with a passion for translating innovative ideas into real-world solutions. She has 20+ years of experience in strategy, innovation, and business development in global companies. At the University of Western Australia (UWA), Jo develops policies, programs, and partnerships to drive innovation and industry engagement. She has experience developing deep science and technology from IP to startup and commercialisation as an advisor, strategist, and ecosystem builder. Jo is skilled at connecting stakeholders from different backgrounds. She speaks the language of startups, industry, universities, and government - and helps them understand each other's perspectives. Jo is also a non-executive Director of Startup WA, a non-profit entity that works to advance the startup industry in Western Australia through representation, advocacy, and public policy. In 2021, she was recognised as one of Western Australia's 40 under 40 business leaders.



THE HONORABLE
DAVID JOHNSTON
Chair, UWA Defence and Security
Institute

The Honourable David Johnston is the Chair of the UWA Defence and Security Institute, leading initiatives to enhance defence and security research, engagement, and policy development in Western Australia. Born and educated in Perth in Western Australia, David attended Wesley College from 1967 – 1973 and then graduated from the University of Western Australia in 1981 with law degrees B.Juris LL.b.

David was elected to the Australian Parliament as a Senator for Western Australia in 2001 and was a Senator for 15 years. Prior to that he was a Barrister and Solicitor in Western Australia practicing in the areas of Mining and Crime and lived and worked on the Eastern Goldfields of Western Australia for 12 years before returning to Perth to continue in the Law and as a Barrister and In-House Counsel providing advice and representation mainly pertaining to mining matters in Western Australia.



MATTHEW LEACH
Managing Director and Partner,
Boston Consulting group

Matt Is a Managing Director and Partner at the Boston Consulting Group and leads BCG's Perth office. Matt started his career in the RAAF, graduating from the Australian Defence Force Academy in 1995 and then completing pilot training, after which he spent 10 years flying the F/A-18, including qualifying as a Fighter Combat Instructor. Matt also spent time as the operational SME on the F/A18 EW upgrade, working closely with the US Navy in the United States, and supporting Operational Test and Evaluation activities for the F/A-18 Hornet Upgrade program. Since leaving the RAAF in 2009, Matt spent 5 years working for BHP Iron Ore as part of their major projects team, including leading the trial of Autonomous mining trucks at their Jimblebar mine for several years. In his 10 years at BCG, Matt has worked for Defence, utility, resources, and public sector clients across multiple topics including strategy, organisational transformation, operations, digital and large capital project delivery. Matt has a Bachelor of Technology (Aeronautical Engineering) and an MBA from UNSW.



OSCAR LESLIE
Managing Director, Phase Alpha

Oscar is the Co-Founder and Managing Partner of Phase Alpha, Australia's first veteran-owned venture capital firm investing in frontier Defence and National Security technologies. Oscar brings a capability-first approach to VC, layering a rich operational background with a passion for emerging technology. He is a firm believer in unifying end-user needs, private capital, industry capability and leading research to deliver advantage to Australia and its allies.



SOPHIE MAYOPolicy Analyst, Office of the General Partners, Salus Ventures

Sophie will shortly be joining Salus Ventures, a national security-focused venture capital firm, where she will be working on policy and operations in the Office of the General Partners. Until recently, Sophie was a Research Associate with the Foreign Policy and Defence Program at the United States Studies Centre (USSC), she will be staying on at USSC as a non-resident fellow.

Sophie is a former consultant with FTI Consulting and research assistant with Global Access Partners. She is also a Pacific Forum Young Leaders Program scholar. Sophie holds a Bachelor of Global Studies (Communications) from the University of Technology Sydney, a Graduate Certificate in Commerce from the University of Sydney and a Masters of International Relations (American Foreign Policy) from the University of Sydney. Her dissertation explored US-China strategic competition in critical and emerging technology.



MAJOR GENERAL (RTD)
GUS MCLACHLAN
Senior Advisor, Defence & National
Security, University of Sydney

Gus McLachlan is a retired Major General who served 37 years in the Australian Army. Born in Melbourne, he attended the Royal Military College - Duntroon and the University of New South Wales, earning a Bachelor of Arts in 1986. Throughout his career, Gus held key operational, training, and leadership roles, including command of the Army's 1st Brigade in Darwin, which was involved in operations in Afghanistan, the Solomon Islands, and East Timor. As a senior leader, he oversaw the development of Defence capabilities in cyber, robotics, Al, and command systems. Gus also led Land Forces Command from 2016 to 2018, managing 35,000 personnel and the generation of combat brigades, helicopters, and drones. His international experience includes a 13-month tour in Afghanistan, where he was awarded the US Legion of Merit for his work as a senior campaign planner.



STEPHEN MOOREFirst Assistant Secretary AUKUS
Advanced Capabilities, Defence
Australia

Stephen Moore commenced as the inaugural First Assistant Secretary **AUKUS Advanced Capabilities in July** 2023, responsible for implementation of Pillar II of AUKUS across the Defence organisation. Prior to that, he served as First Assistant Secretary Defence Industry Policy since December 2021, where he developed and implemented international and domestic defence industry policy. Stephen has held a number of senior positions in Defence, including Deputy Director of the Defence Intelligence Organisation, a long-term acting role as First Assistant Secretary International Policy, and as a senior advisor to a Minister. Prior to those roles, Stephen held the position of Assistant Secretary Global Interests, in the Department of Defence's International Policy Division. Stephen joined the Australian Defence Department when he commenced working for International Policy Division early in 2006, covering a wide range of areas including the Pacific, North Asia and the Middle East. He has been responsible for developing strategic and operations policy relating to Australia's military commitments to Iraq and Afghanistan and has deployed to both Iraq and Afghanistan as a policy advisor to Australian commanders in theatre.



PAUL MYLERFormer Deputy Chief of Mission,
Australian Embassy, Washington D.C

Paul Myler has just completed a fiveyear stint at the Australian Embassy in Washington. As Deputy Chief of Mission, Paul managed 300 embassy staff through an executive team of twenty, representing the breadth of the Australian Government forward deployed to Washington. From 2019 he supported Ambassadors Hockey, Sinodinos and Rudd through the major geopolitical and economic shifts of the last five years including: COVID19; China's economic coercion and our responding diversification of markets and prioritisation of trusted supply chains, including on critical minerals; re-emergence of the Quad and founding of AUKUS; designing Australia's response to the Biden Administration's Inflation Reduction Act; and the revival of the threat of major power conflict. During this time, he also oversaw the reconstruction of the Australian embassy and relocation of embassy staff - a significant change management challenge against the backdrop of COVID19.



SIRIANA NAIR
U.S. Consul General, ConsulateGeneral of the United States of
America (WA)

Siriana Kvalvik Nair is a career Foreign Service Officer with the U.S. Department of State, currently serving as the Deputy Political Counselor at U.S. Mission Brazil. Prior to her arrival in Brasilia, Ms. Nair served as the Acting Political Counselor at the U.S. Mission in Jakarta, Indonesia, during a time of significant political transition. As the Director of the United States' International Narcotics and Law Enforcement regional office for North Africa (based in Rabat, Morocco), she established and managed multi-million dollar programs in law enforcement, judicial reform, and border security. She has served previous assignments with the Department of State in India, the Philippines, and Washington, D.C.

Prior to joining the State Department, Ms. Nair served as an English teaching fellow in Nanjing, China. She has a Master's degree in Law and Diplomacy from the Fletcher School of Law and Diplomacy at Tufts University, and degrees in Political Science and Biology from Wellesley College. She is married to Jai Nair, a fellow Foreign Service Officer, and they have four children.



JOEL NEVINManaging Director, Blacktree
Technology Pty Ltd

Joel commenced her career in 1990 after Graduating from the University of Western Australia with a Bachelor of Commerce. Joel held various positions in the Banking and Finance sector in Perth and Melbourne across front line and head office environments. She was involved in the implementation of productivity improvement programs along with roles in a major program that involved in design, test and implementation of new software platforms for a large Australian financial institution. Prior to leaving this sector, Joel held the position of Project Manager, leading teams to implement organisational change across 50 locations in metropolitan and regional areas.

Following the success of previous programs, Joel co-founded Blacktree Technology and established the project management and administration functions to support the company as it provided technical solutions to complex radio and satellite communications problems in challenging environments in Australasia.



XAVIER ORRCo-Founder, Advanced Navigation

Xavier Orr is a robotics engineer specialised in neural network architecture and algorithms. In 2009 he did his thesis at UWA on a neural network navigation algorithm. In 2012 he founded Advanced Navigation to commercialise this technology. The company grew rapidly, raising over \$135 million and supplying products to many large companies such as NASA, Airbus, Tesla and Lockheed Martin. In 2024 he retired as co-CEO to continue to guide the company as a board director and advisor.







THE HONOURABLE
PAUL PAPALIA CSC MLA

Minister for Police; Corrective Services; Defence Industry; Veterans Issues

Paul was born in Bunbury and raised in the small south west town of Burekup. He entered the Royal Australian Navy in 1978 and served in the military for 26 years eventually qualifying as a Navy Clearance Diver, serving in the counter terrorist squadron of the Special Air Service Regiment and deployed on operations to Iraq on two occasions. In the course of his military career, Paul commanded a Clearance Diving Team, a navy patrol boat and the Navy's submarine escape and rescue service. He was awarded the Conspicuous Service Cross and Commendations from both the Land and Maritime Commanders before leaving the service in early 2004. Paul and his wife Gillian were self-employed in small business when he was approached to consider preselection for WA Labor in the lead up to the Peel by-election in late 2006. Paul was elected to the seat of Peel in February 2007, then elected to the new seat of Warnbro in September 2008 and re-elected to that seat in 2013 and 2017. Paul served in the Shadow Ministry after WA Labor lost office in 2008 as Shadow Minister for Tourism, Corrective Services and Defence Issues.

PROFESSOR GIA PARISHDirector, UWA Defence and Security Institute

Giacinta (Gia) Parish is Director, Defence & Security Institute and Professor, School of Engineering at the University of Western Australia; and a Director on the Board of AROSE. Professor Parish joined UWA after completing a PhD at the University of California, Santa Barbara as a Fulbright Scholar. She has a multidisciplinary background in electronic engineering, materials science and chemistry, particularly advanced semiconductor materials and device technologies. Her current research focus is chemical, bio- and infrared sensors for environmental and industrial monitoring and defence applications. Professor Parish has co-authored around 150 international publications, with close to 3000 citations, and was an inaugural Women in Technology WA '20 in 20' award winner in 2018.

MARIA RENNIE British Consul General Perth

Maria Rennie was appointed as His Majesty's Consul General for Western Australia in July 2023. Maria has been a member of the British diplomatic service since 2002, working in over 25 British diplomatic posts overseas in a variety of roles. Most recently, Maria worked as the Deputy Consul General in Chicago helping lead the UK's engagement across 14 states of the US Midwest and was previously seconded to the UK's Home Office for Consular and Immigration roles in both Bogotá, Colombia and Miami, USA. As Head of the Crisis Training and Policy Team in the Foreign, Commonwealth & Development Office's Crisis Management Department, Maria oversaw crisis training and bespoke crisis exercises across the UK's global network. She also led the UK's consular or operational response to over 35 international crises during that same 5-year period. As the UK government lead on coordination of support for victims of international terrorism she helped establish the Home Office's cross-government Victims of Terrorism Unit in 2017.







Mark holds the position of Sales Manager for Kongsberg Discovery's Uncrewed Platforms division, and works closely with customers from industry, research, government and defence to develop and deliver autonomous and uncrewed solutions to the Asia Pacific Region.

Prior to joining Kongsberg, Mark worked in the marine survey industry, holding a variety of roles supporting customers on major Australian projects, including the Australian Transport Safety Bureau during the search for missing Malaysia Airlines MH370, Australia's national seabed mapping program-Hydroscheme Industry Partnership Program (HIPP) and the Royal Australian Navy Integrated Battle Problem 23-3 exercise.

Mark holds a Masters in Oceanography from the University of Southampton, United Kingdom.



MARK STEVENS
Founder and Managing Director
of Arican

Mark is Australia's leading commentator on and adviser to Defence Industry, He is the Founder and Managing Director of Arican and a Founder Managing Partner of Periscope Capital Partners and its recently launched Australian National Security Growth Fund, Periscope. Mark comes from a strong foundation of 15 years' uniformed Defence experience in the Australian Army. He is a 1984 Graduate of the Royal Military College Duntroon and commanded in the Infantry up to company level. Mark was the Executive Chairman of ASX-listed international Defence company HighCom Limited (ASX:HCL) and a Non-Executive Director at Eptec Group. Mark is currently the Chair of private equity owned Shadbolt Group. Mark has led over 150 complex transaction projects encompassing advisory engagements and capital raisings in the Defence and National Security market segments.



REBECCA TOMKINSON

Chief Executive Officer, The Chamber of Minerals and Energy of Western Australia (CME)

Rebecca Tomkinson is the Chief Executive Officer of The Chamber of Minerals and Energy of Western Australia (CME), the peak resources sector representative body in Western Australia.

Immediately prior to joining the CME Rebecca was the Chief Executive Officer of the Royal Flying Doctor Service in WA. In her early career Rebecca worked in local, state, and federal government before transitioning to executive roles in the corporate and community benefit sectors. Raised in regional WA, Rebecca is deeply committed to the social and economic development of the state and the promotion of its unique and critical role nationally and globally. Rebecca is a current board member of Infrastructure WA, Crown Perth, the Perth USAsia Centre and the AROSE International Space Council (AISC). She is also Chair of the Government's Future Health Research and Innovation Fund Advisory Council.







PIA TURCINOV AMDirector & General Partner, FundWA

Pia is an accomplished portfolio board director and a General Partner of Fund WA, a Perth-based venture capital fund that invests in early-stage WA companies with big ideas and global ambitions. While industry agnostic, Fund WA operates on a mandate focused on backing innovative, high growth and scalable opportunities in WA at the early commercialisation stages. With 30+ years of legal, commercial, and corporate experience across multiple industries, Pia has worked with hundreds of founders, start-ups and high-growth ventures and is passionate about scaling Australian innovation into global markets. Pia holds LLB.BA. degrees from the University of NSW and is a Graduate of the Australian Institute of Company Directors. Pia was appointed as a Member of the Order of Australia in the King's Birthday 2023 Honours List for her significant service to technology, innovation, and women in STEM.

DAVID TYNAN

Executive Manager, Defence and National Security Partnership, CSIRO

David is the Executive Manager for CSIRO Defence and National Security partnerships. He is responsible for providing CSIRO clear insight into Commonwealth national security science and technology objectives, particularly for AUKUS Pillar 2. David works with the government, universities and industry to help build the scalable research partnerships required to accelerate delivery of critical Commonwealth national security capabilities.

David began his career in clinical research after completed a Bachelor of Biomedical Science at U. Queensland before moving into Pharmaceutical and Mining workforce consultancy in Australia, the UK and UAE. David later completed a Masters of International Relations at U. Melbourne and moved into Commonwealth national security and counter-terrorism roles before rejoining consultancy with Deloitte where he helped to build the national security practice.

DR RICHARD WALLEY OAMWelcome to Country

Dr Richard Walley OAM is a Noongar man and one of Australia's leading Aboriginal performers, musicians and writers.

Richard is a working director of his family-owned business, Aboriginal Productions and Promotions, which delivers cultural awareness and learning programs and has been in operation for over 25 years. Richard is a committed leader in the promotion of Noongar culture, and has extensive experience working alongside Australian and international organisations as a cultural consultant and presenter. Richard lectures on Aboriginal culture at UWA and is a regular host and participant at significant public and cultural events in Perth and the South West. In 1978, Richard formed the Middar Aboriginal Theatre which has since taken Noongar culture to 32 countries. It is estimated more than 10 million people have experienced a live performance from Middar, contributing to the company's win of the 1988 Gold Swan Tourism Award. In 2015, Richard was named a State Living Treasure from the Western Australia Department of Culture and the Arts for his lifetime contribution to arts and culture.





LU ZHOUHead of Policy, U.S. Consulate
General Perth

Lu Zhou is the Head of Policy at the US Consulate General Perth. A career Foreign Service Officer of 13 years, Lu has been posted to Seoul, Kuala Lumpur, Washington D.C., Munich, and Dubai. He speaks Mandarin, German, and some Korean. Lu holds a BS in Industrial Engineering and Operations Research from UC Berkeley and worked as a marketing professional in California for 10 years



COLLABORATIVE CASE STUDIES

CASE STUDY 1

Patrol Boat Autonomy Trial

The Patrol Boat Autonomy Trial (PBAT) was a collaboration between Austal, Greenroom Robotics, Trusted Autonomous Systems, and the Royal Australian Navy's WIN Branch, aimed at integrating remote and autonomous capabilities into patrol boats.

It served as a crucial prototype for optionally crewed or fully autonomous naval operations. Through this project, key legal and regulatory challenges were addressed, advancing Pillar II's objectives by enhancing capability development, improving interoperability, and increasing the sophistication and scale of autonomous systems in the maritime domain. PBAT was instrumental in driving the AUKUS Maritime Autonomy Experimentation and Exercise Series, accelerating the next-generation of maritime defence technologies







CASE STUDY 2

Hyperbaric CUF

The Hyperbaric CUF is an innovative, industrycollaborative initiative featuring one of the largest hyperbaric chambers in the Southern Hemisphere.

This advanced test facility is designed for the testing and maintenance of critical, sophisticated subsea equipment under controlled, high-pressure conditions. With its enhanced local capabilities, the CUF significantly reduces turnaround times, ensuring quicker, efficient services. The facility offers comprehensive testing, boosting equipment reliability and operational flexibility for underwater operations. Moreover, it reduces supply chain risks, increases transparency in root cause analysis, and opens up regional opportunities for growth, development, and job creation, providing valuable support to various industries requiring subsea solutions.





Government of Western Australia ment of Jobs, Tourism, Science and Innovation

Baker Hughes >















