

# PRELIMINARY PROGRAM

AS OF 23RD NOVEMBER 2024

PLEASE NOTE THAT THIS PROGRAM IS SUBJECT TO CHANGE

## 25-29 NOVEMBER 2024 CROWN PERTH, WESTERN AUSTRALIA

Bringing together leaders from across the Indo-Pacific and beyond for opportunities in space and cross-sector technologies and innovation







WESTERN

AUSTRALIA







## JOIN SPEAKERS AND DELEGATES FROM ACROSS THE INDO-PACIFIC AND BEYOND

**EXTENSIVE BUSINESS NETWORKING OPPORTUNITIES** 

#### 100+ SPEAKERS **PARTICIPANTS FROM 20 COUNTRIES**

























**NORWAY** 



SINGAPORE

















## **BRINGING TOGETHER LEADERS FROM ACROSS THE** INDO-PACIFIC AND BEYOND FOR OPPORTUNITIES IN SPACE AND CROSS-SECTOR TECHNOLOGIES AND INNOVATION

After a resounding success in 2023, The Indo-Pacific Space and Earth Conference (IPSEC) is back again in November 2024, promising even greater opportunities for collaboration and innovation.

The conference aims to unite leading minds, thought leaders, and industry experts from around the globe, fostering dialogue and collaboration in the realm of space and cross-sector technologies. Through interactive sessions, workshops, and discussions, attendees will have the chance to delve into the boundless possibilities of space technologies and their transformative impact on Earth.

In November 2024, join us once again for the next installment of IPSEC, where you'll have invaluable opportunities to share knowledge, forge collaborations, and network with key industry leaders. Don't miss out on this unparalleled opportunity to be at the forefront of innovation and exploration.

#### **TECHNICAL TOURS**

Monday 25<sup>th</sup> November 2024

#### **CONFERENCE**

Tuesday 26<sup>th</sup> November 2024

#### **JOINT EXHIBITION WITH APRSAF**

Tuesday 26<sup>th</sup> - Thursday 28<sup>th</sup> November 2024

**BUSINESS NETWORKING OPPORTUNITIES** 



















# **2024 CONFERENCE & EXHIBITION PROGRAM**

MONDAY 25<sup>TH</sup> NOVEMBER 2024 TECHNICAL TOURS & INTERNATIONAL DELEGATE BRIEFING

Please note this is a preliminary schedule and is subject to change.

### **TECHNICAL TOURS**

# AUSTRALIAN AUTOMATION AND ROBOTICS PRECINCT (AARP)



Monday 25<sup>th</sup> November 2024 9.30am – 12.30pm Pederick Rd, Neerabup WA 6031

Field robotics demos for mining and space

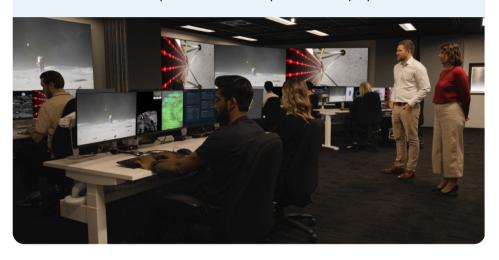


#### **FUGRO SPAARC**



Monday 25<sup>th</sup> November 2024 11.00am – 12.00pm 4.00pm – 5.00pm

Remote operations for deep sea to deep space



#### **CURTIN UNIVERSITY**



Monday 25<sup>th</sup> November 2024 1.45pm – 4.00pm Kent St, Bentley WA 6102

Small sats – Data



## **INTERNATIONAL DELEGATE BRIEFING**

### INVEST AND TRADE WESTERN AUSTRALIA INTERNATIONAL DELEGATE BRIEFING



Monday 25<sup>th</sup> November 2024 5.00pm – 7.30pm DoubleTree by Hilton Perth Waterfront, 1 Barrack Square Perth, WA 6000

A briefing for international delegates registered to attend the Indo-Pacific Space and Earth Conference 2024



# **2024 CONFERENCE & EXHIBITION PROGRAM**

TUESDAY 26<sup>TH</sup> – THURSDAY 28<sup>TH</sup> NOVEMBER 2024 CROWN PERTH

Please note this is a preliminary schedule and is subject to change.

	CONFERENCE & EXHIBITION – TUESDAY 26TH NOVEMBER 2024										
ALL DAY	JOINT EXHIBITION WITH APRSAF / NETWORKING  EXHIBITION HALL										
7.00am – 8.30am	REGISTRATION OPEN – TEA AND COFFEE ON ARRIVAL  GRAND BALLROOM FOYER										
	OPENING PLENARY SESSION  GRAND BALLROOM 1										
	Lat Connect 60°										
8.45am - 8.50am			MC we	bage 🔀							
8.50am – 9.00am			Director & Executive Editor – MyS  Welcome 1  Chris Lo	to Country							
9.00am – 9.10am	Chris Lawrence  Conference overview  Renae Sayers										
9.10am – 9.15am	Renae Sayers   Director, Strategic Initiatives for Earth and Planetary Sciences – Curtin University  Conference opening / welcome  Hon Stephen Dawson MLC										
015 020	Minister for Emergency Services; Inno	vation and the L	Digital Economy; Science; Medical Re	search; Minister Assisting the Minister	for State and Indu	ustry	Development, Jobs and Trade				
9.15am – 9.20am 			Enrico Pa Head of the Austra KEYI	ilian Space Agency							
9.20am – 9.35am			<b>Space. S</b> **Professor Anu  **Director of Championing 5	Ojha OBE 🎇							
9.35am – 9.45am	<b>KEYNOTE Koichi Wakata</b> ●  Astronaut and Chief Technology Officer, Asia-Pacific Region – AXIOM Space										
	PANEL International Astronaut panel – what our work in space does for life on Earth  MODERATOR										
	Samuel Forbes  Director – Fugro SpAARC (Australian Space Automation, Artificial Intelligence and Robotics Control Complex)  PANELLISTS  Koichi Wakata  Astronaut and Chief Technology Officer, Asia-Pacific Region – AXIOM Space  Katherine Bennell-Pegg  Australian Astronaut & Director of Space Technology – Australian Space Agency										
9.45am – 10.20am											
	Australian Astronaut & Director of Space Technology – Australian Space Agency  Shawna Pandya •  Canadian Astronaut, Aquanaut, Physician, Scientist, Explorer, Director – IIAS Space Medicine Group  Nicola Winter (Virtual)  German Reserve Astronaut, Former Fighter Pilot – German Aerospace Center (DLR)										
10.20am – 10.50am	KEYNOTE  NASA small spacecraft – benefits to humanity – an envisioned future										
		Roger Hunter = Program Manager, Small Spacecraft Technology Program – NASA Ames Research Center  PRESENTATION									
10.50am – 11.00am			SIA India – IPSEC Know Dr Subba Rac President – SIA-India, Chairman	Pavuluri 🍱							
11.00am – 11.30am			MORNING TEA EXHIBITION HALL								
	GRAND BALLROOM 1	ROBOTICS, AI & AUTONOMY GRAND BALLROOM 1		MINING & RESOURCES  ASTRAL 1			INNOVATION & VENTURE CAPITAL  ASTRAL 2  SESSION CHAIR				
	SESSION CHAIR  Dr Mark Micire :: :::::::::::::::::::::::::::::::::		Jon Scio	SESSION CHAIR  Jon Sciortino  Portfolio Manager, Autonomous & Intelligence Systems – Nova Systems			SESSION CHAIR  Peter Rossdeutscher AM  Chair – First Nations X,  Chair – Quantum Australia				
	FIRESIDE CHAT WITH JASON CRUSAN The Lunar Gateway		FIRESIDE CHAT – Issues we face in mir a discussion with en	PANEL  Venture capital's role in space and tech breakthroughs  MODERATOR  James Ridley-Jones  Trade and Investment Adviser, Space Sector Team –							
			IPSEC END-CUSTOMER  Rebecca Tol  Chief Executive Officer – The Chief								
11.30am – 12.00pm	Jason Crusan ::::: image: State   Jason Crusan	ns Division;	Western Aus FACILI Jon Scio	stralia (CME) TATOR rtino			partment for Business and Trade  PANELLISTS  Alexandra Vidyuk  er – Beyond Earth Technologies				
	FACILITATOR  Renae Sayers  Director, Strategic Initiatives for Earth and Planetary Sciences –  Curtin University			itelligence Systems – Nova Systems	Partner – Beyond Earth Technologies  Jason Held  CEO – Saber Astronautics  Danelle Cross						
			technologies to solve co exploration challen Professor Bre	Danelle Cross  Director of Entrepreneurship – WestTech Fest / Curtin University  Raphael Roettgen  Founding Partner – E2MC  Yuya Nakamura  ■							
	PANEL		Head of Exploration Geop		Future		President & CEO – Axelspace  PANEL  pace engineering in Australia				
	AI-powered space: innovation in space missions and operations		Mining on Earth - lessons and implementations from IPSEC 2023  IPSEC OUTCOMES SESSION		MODERATOR  Anntonette Dailey  Board Member – Defence Council of Victoria and						
12.00 12.45	Aude Vignelles  Senior Advisor – BryceTech PANELLISTS		MODERATOR  Michelle Keegan  Director – Resources and Space – AROSE		Aviation Aerospace Australia, Chair – Australian Space Diversity Alliance, Head of Government Affairs –Virgin Australia PANELLISTS						
12.00pm – 12.45pm	Aman Gupta Senior Consultant, Aeronautics, Space & Defence Industry – Capgemini Invent Shaun Kenyon [18]		PANELLISTS  Jonathan Stock  Director - US Geological Survey National Innovation Center,  US Department of the Interior		Erin Madden  Systems Engineer, Trial Manager – Nova Systems  Peter Moar  Chair of the National Committee for Space Engineering –						
	Chief Executive Officer & Co-founder – Starbound Spac <b>Rafael Kargren</b> Head of Operations – Aurizn <b>Schellie-Jayne Price</b>	ce Solutions	Shawn Fer Shawn Fer Head of Intelligent Asset Ted Dave La	nando 🚻 chnology – Woodside Energy	Deputy Pr		Engineers Australia  • Siddharth Pandey   ——  Manager – AROSE Lunar Trailblazer Rover,  Fugro SpAARC				
Partner – Stirling & Rose				echnologist - Mining - IMDEX		Brendan (Ben) Quine CEO and CTO – ThothX Group  PRESENTATION					
12.45pm – 1.00pm	PRESENTATION  Innovations in distributed spacecraft autonomy  Caleb Adams Froject Manager, Distributed Spacecraft Autonomy –		PRESENTATION  The economics of space mining vs. terrestrial mining: a comparative analysis  Andrey Lopantsev		Opportunities with microgravity for advances in mining, agriculture and medicine  Danail Obreschkow						
	NASA Ames Research Center  PRESENTATION		Co-founder – Asteroid Mining Corporation (AMC)  PRESENTATION		Astrophys		& Head of the International Space Centre – University of Western Australia  PRESENTATION				
1.00pm – 1.15pm	Advances with laser data communic  Associate Professor Sascha Schediwy  Principal Research Fellow – International Centre for Rad  Research (ICRAR) – International Space Centre, The U	io Astronomy	Earth observation and remote sensing advances for the oil and gas industry  Kenneth Olafsson Head of KSAT Asia & Representative Director -  Structural thermal optical performance analysis of an Earth observation payload aboard a LEO satellite  Bennett Frenck								
	Research (IC.HAR) – International Space Centre, The University of Western Australia  PRESENTATION		KSAT (Kongsberg Satellite Services) Japan  PRESENTATION  From Earth observation to Earth characterisation		Application Engineer – LEAP Australia.  PRESENTATION  Aligning the stars: the Space 2030 Agenda and						
1.15pm – 1.30pm	Advances in AI at NASA Ames  Dave Alfano  Chief, Intelligent Systems Division – NASA Ames Research Center  Advances in AI at NASA Ames  - opportunities of satellite hyperspectral imaging and benefit to industry  Dr Carsten Laukamp				Su: Vice Preside	staii ent foi	nable development goals Melanye Wawrik :::: r Membership (Western Australia Division) –				
1.30pm – 2.30pm		Principal Research Geoscientist – CSIRO Mineral Resources United Nations Association of Australia  LUNCH  EXHIBITION HALL									
	SECURITY, DEFENCE & INDO-PACIFIC RELATIONS		TAINABILITY & ATIONAL RELATIONS	DISASTER MANAGI ASTRAL 2	EMENT		AGRICULTURE BOTANICAL 3				
	GRAND BALLROOM 1  SESSION SPONSOR  LOCKHEED MARTIN		ASTRAL 1	101111-2			SESSION SPONSOR				
2.30pm – 2.35pm	AUSTRALIA  SESSION CHAIR  Linda Dawson	Senior Direc	SESSION CHAIR  In Christensen  tor – Private Sector Programs Secure World Foundation	PRESENTATION / SESSION  Dr Eriita Jones  Planetary Scientist – Curtin L	7	2.30pm – 2.45pm	SMARTSAT  COOPRIATIVE RESEARCH CENTRE  SESSION CHAIR				
	Deputy Director General – WA Government, Department of Jobs, Tourism, Science and Innovation	di inc		(10 minutes)		23	Professor Andy Koronios  CEO & Managing Director – SmartSat CRC				
3.35mm - 3.50mm	PANEL		PANEL ble of international tion in building space ecosystems	Multi-weather hazard r and early warnings witl powered insights and	h satellite	3.00pm	PRESENTATION  Challenges and opportunities for Australian agriculture and food systems				
2.35pm – 2.50pm	AUKUS and space technologies in defence: strategic innovations and geopolitical implications	^	MODERATOR  Tim Parsons  MD – Lunar Ascent,	monitoring for changin  Dr Rajasekhar Meka  Chief Meteorologist for Space Laun Indian Space Research Organis	ch & Recovery –	2.45pm -	Professor Kadambot Siddique AM Hackett Professor of Agriculture, Chair and Director – The University of Western Australia Institute of Agriculture				
	Gary Hale Marcolor, National Resilience & Security (NRAS) – Curtin University	Ass	tive Director – Space Industry sociation of Australia, sordinator – SmartSat CRC PANELLISTS	maran space research organis	ation (isne)						
	PANELLISTS  David Ball   Regional Director, Australia and New Zealand −  Lockheed Martin Space	Managing L <b>D</b> Partner and Cl	annah Ashford Director – The Karman Project Lavis Cook hairman – Research Institute for	KEYNOTE  NASA/JPL Earth science and applications – inr	novative		PANEL The age of digital farming, fisheries and forestry				
2.50pm – 3.20pm	Lockheed Martin Space  Air Vice-Marshal (Ret'd) Catherine Roberts  AO CSC  AEA Advisory Board  Lead		remote sensing technology – remote sensing technology – remote sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensing technology – remote sensing technology – societal benefit of the sensitive technology – societal benefit of the sensitive technology – societal benefit of the sensit		logies for ts		fisheries and forestry  MODERATOR  Fabrice Marre  Senior Earth Observation Specialist –				
	Marissa Martin	<b>Katar</b> Deputy Head Scie	ina Miljkovic OAM ina Miljkovic OAM is School of Earth and Planetary nce – Curtin University a Rhodes-Tiwana	Manager, Civil Program O NASA Jet Propulsion Laborator, Institute of Technolog	y, California	pm - 3.45pm	SmartSat CRC PANELLISTS  Dr Mehdi Ravanbakhsh				
	PANEL	Senior S	Strategy Advisor – iSpace	PANEL		3.00	CEO – Mapizy  Dr Moira Smith  CTO – Digital Content Analysis Technology (D-CAT)				
	PANEL Space as critical infrastructure – cyber security resilience and threat intelligence	· re	nnologies in support of egional needs  MODERATOR assandra Steer	Space technologies for management: building communities	resilient		<b>Ren Uechi</b> CEO – Solafune <b>Olivier Michel</b> Vice President Sales – Unseenlabs				
	MODERATOR  Gareth Willis  Head of Security - Fugro SpAARC  PANEL USTS	Chair – Austral	ian Centre for Space Governance  PANELLISTS  Gay Jane Perez	MODERATOR  Kunal Raina  Head of Global Strategic Partnersh  PANELLISTS	ips – Axelspace						
3.20pm – 4.00pm		Technology <b>Dr</b> Senior Counselor	or General for Space Science and y - Philippines Space Agency <b>Kate Kitagawa</b> for International Relations - JAXA;	Vincent Kessler □ General Manager – Synsp Laura Edwards ■ Climate / Space Tech Evangelist -	pective	E,	PRESENTATION				
	Scott Julian 📷 Space and Defence Sector Lead – National Office of Cyber Security, Australian Department of Home Affairs	Adviso Supervisor – Of Taiwa	r to Senior Vice President  Frank Lo  fice of International Cooperation, an Space Agency (TASA)	Climate / Space Tech Evangelist - Oxford Space Initiati <b>Ekaterina Kostioukhin</b> Medical Consultant and Air Amb Team - Health New Zea	ve a <mark>====</mark> ulance Flight	.45pm – 4.00pr	Plants in Space  Harvey Millar  Director – ARC Centre of Excellence in Plant Energy Biology, University of Western				
	Matt Salier 📆 CEO – Australian Cyber Collaboration Centre (Aus3C)	Executive Direc	eksandar Deejay 🛗 tor – Australian Centre for Space Governance	<b>Hirokazu Mori</b> ● CSO – WARPSPACE Inc. (CEO of U	]	Ř	Australia Australia				
4.00pm – 4.15pm	PRESENTATION  Navigating PNT for critical infrastructure resilience and security	SWIRSAT: for emissi	PRESENTATION Bridging the data gap ons and sustainability applications	IGNIS: An Australiar consortium for surface to and lightning dete	emperature	1 – 4.15pm	PRESENTATION  From data to difference – delivering impact through				
	security  Dr Jia-Urnn Lee  Space and Defence Lead – FrontierSI Australia	Ruebe	en Rajasingam 🔠 뜨 ating Officer & Co-Founder – LatConnect 60	Professor Paulo de Sou: Executive Dean, School of Eng Edith Cowan Universi	za 🚟 gineering –	4.00pm	geospatial intelligence  Paul Farrell  CEO - NGIS				
4.15pm – 4.45pm			AFTERNO EXHIBITI	ON HALL							
				ALLROOM 1							
	CLOSING PLENARY SPONSOR  SMARTSAT  COOPERATIVE RESEARCH CENTER										
4.45pm – 4.50pm	James Yuen 🚟 Executive Director, Innovation and Emerging Industries – Western Australian Government, Department of Jobs, Tourism, Science and Innovation										
	CLOSING PLENARY  Global synergies for a sustainable future – shaping tomorrow together  MODERATOR										
			Aude Vig Senior Adviso PANEI	nelles  or – BryceTech LLISTS							
4.50pm – 5.35pm	Deputy Director General − JAXA's Institute of Space and Astronautical Science (ISAS)  Joshua Broom    Head of Space − UK Department for Business and Trade  Tamara Bell										
							ender Equity Network				
	Executive Director –	Global Engagement Manager, Space (Technology and Defence) – Australian Trade and Investment Commission (Austrade); Chair – Austrade Gender Equity Network  Professor Steven Tingay  Executive Director – Curtin Institute of Radio Astronomy (CIRA), Curtin University; Australian SKA Coordination Committee independent member  Dawn McIntosh									
5.35pm – 5.40pm	Space Systems Director – Fugro SpAARC (Australian Space Automation, Artificial Intelligence and Robotics Control Complex)  Thank you and closing  David Matrai										
, J. 10pm	Committee Chair – Indo-Pacific Space & Earth Conference, Joint Managing Director – MySecurity Media / Australia in Space  JOINT APRSAF AND IPSEC WELCOME RECEPTION										
	EXHIBITION HALL  SPONSORED BY  WESTERN   BUSINESS										
6.00pm – 8.00pm						WESTERN   BUSINESS EVENTS AUSTRALIA   PERTH					
6.00pm – 8.00pm			WESTER	N BUSINESS EVENTS							

	EXHIBITION – WEDNESDAY 27TH NOVEMBER 2024				
ALL DAY	JOINT EXHIBITION WITH APRSAF / NETWORKING EXHIBITION HALL				
	SPACE CYBER WORKSHOP  BOTANICAL 3				
10.30am – 12.00pm	WORKSHOP - MORNING SESSION  Space cyber threat intelligence seminar and exercise workshop				
	OFFICIAL OBSERVERS  Scott Julian   Space and Defence Sector Lead − National Office of Cyber Security, Australian Department of Home Affairs				
	Nick Sincock				
	Serena King 🔠  Assistant Director — National Office of Cyber Security, Australian Department of Home Affairs				
	EXERCISE FACILITATORS				
	Jason Pang  Co-Founder & CEO – Retrospect Labs  REGISTER TO				
	Gareth Willis Head of Security – Fugro SpAARC  ATTEND WORKSHOP				
12.00pm – 1.00pm	LUNCH				
	EXHIBITION HALL				
1.00pm – 2.30pm	WORKSHOP – AFTERNOON SESSION  Space cyber threat intelligence seminar and exercise workshop				

EXHIBITION – THURSDAY 28<sup>TH</sup> NOVEMBER 2024

ALL DAY

JOINT EXHIBITION WITH APRSAF / NETWORKING

## **100+ CONFIRMED SPEAKERS**



## **CONFIRMED SPEAKERS FOR IPSEC 2024**



CALEB ADAMS



HANNAH ASHFORD DAVE ALFANO



DAVID BALL



TAMARA BELL





TROY CASTLEMAIN



DR EDWARD CHOW



IAN CHRISTENSEN



DANELLE CROSS





















DR MASAKI FUJIMOTO















DR ERIITA JONES



SCOTT JULIAN



RAFAEL KARGREN



MICHELLE KEEGAN



SHAUN KENYON



VINCENT KESSLER



SERENA KING











**DAVE LAWIE** 





































































MATT SALIER

CEO – Australian Cyber
Collaboration Centre
(Aus3C)



RENAE SAYERS

Director, Strategic
nitiatives for Earth and
Planetary Sciences –
Curtin University















JONATHAN STOCK

Director – US Geological
Survey National
Innovation Center, US
Department of the Interior





ALEXANDRA VIDYUK









GARETH WILLIS Head of Security – Fugi SpAARC

German Reserve Astronaut, Former Fighter Pilot – German Aerospaci Center (DLR)



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**OPENING PLENARY PARTNER** 



AGRICULTURE CONCURRENT STREAM PARTNER

**APP PARTNER** 













**EXHIBITORS** 























































INDIA DELEGATION SPOTLIGHT PARTNERS













































**MEDIA PARTNERS** 













W W W . S P A C E A N D E A R T H C O N F E R E N C E . C O M