

UNDERWATER360 STAGE

ADX OZTEK AUSTRALIA 2025
ICC SYDNEY, DARLING HARBOUR, AUSTRALIA
15th & 16th MARCH 2025

SATURDAY, 15th MARCH 2025		
TIME	SPEAKER	TOPICS
09:00-09:25	Speaker Name: Neno Padjen	Speaker Topic: Safe Maintenance Procedures for Breathing Air Compressors
09:30-09:55	Speaker Name: Mike Scotland	Speaker Topic: Swimming with sharks Photography, Marine Biology
10:00-10:25	Speaker Name: Matty Smith	Speaker Topic: Journey to the End of the Earth: A Photographic Expedition to Antarctica
10:30-10:55	Speaker Name: Richard Fitzpatrick	Speaker Topic: Catching them by the tail, tagging, tracking and a scientific response to bites: The latest on Shark Behaviour in Queensland
11:00-11:25	Speaker Name: Nicolas Remy	Speaker Topic: Rebreathers for Photography
11:30-11:55	Speaker Name: Scott Portelli	Speaker Topic: Photographing Antarctica Underwater
12:00-12:25	Speaker Name: Dr. Frauke Tillmans	Speaker Topic: "That Was Close" Learning from Diving Accidents
12:30-12:55	Speaker Name: Matt Reed	Speaker Topic: Tech Diving in Malapascua, Philippines
13:00-13:25	Speaker Name: Nicole Miller	Speaker Topic: Our Ocean, Our Responsibility: A Healthy Ocean Depends On Everyone
13:30-13:55	Speaker Name: Michael Aw	Speaker Topic: Amazing Photographic Wonders: Photography
14:00-14:55	Panel Discussion: Modrator: Robin Cuesta Speakers: Patrick Widmann, Mikko Paasi, Christian Heylen, Daniel Fitzgerald, David Tipping, Chen Qian Charlie	Panel Discussion Topic: TekDive: Explore, Educate, Equip
15:00-15:30	ADEX OZTEK AUSTRALIA 2025 OFFICIAL OPENING CEREMONY	
15:30-15:55	Speaker Name: Valerie Taylor Gordon Scott	Speaker Topic: Harmonised Grey Nurse Shark Census
16:00-16:25	Speaker Name: Kenji Ichimura	Speaker Topic: Diving In Japan (Greater Tokyo Area)
16:30-16:55	Speaker Name: Marco Bordieri	Speaker Topic: Underwater Exploration & Mapping with Consumer-Grade Devices and Skills
17:00-17:25	Speaker Name: Dr Guillermo Corona	Speaker Topic: Blue Ocean Credits Program: A Nature-Positive Economy Approach
17:30-17:55	Speaker Name: Mark Rausch	Speaker Topic: Therapeutic & Psychological Benefits: The impact of diving on mental well-being, mobility, and confidence-building

SUNDAY, 16th MARCH 2025		
TIME	SPEAKER	TOPICS
09:00-09:25	Speaker Name: Dr Elodie Camprasse	Speaker Topic: Spider Crabs & Citizen Science
09:30-09:55	Speaker Name: Monica Chin	Speaker Topic: Nature Comes First!
10:00-10:25	Speaker Name: Todd Thimios	Speaker Topic: Ultimate Dive Sites
10:30-10:55	Speaker Name: Daniel Fitzgerald	Speaker Topic: Exploring Queensland's Best Diving Spot You've Never Heard Of: Technical & Rebreather Diving on North Stradbroke Island
11:00-11:25	Speaker Name: David Tipping	Speaker Topic: Identifying the USS Ommaney Bay
11:30-11:55	Speaker Name: Steven Ng	Speaker Topic: Discover Brunei "The Undiscovered Secrets of Brunei" Shipwrecks
12:00-12:25	Speaker Name: Vanessa Mignon	Speaker Topic: From Whales to Nudibranchs: Falling in Love with Macro Photography
12:30-12:55	Speaker Name: Patrick Widmann	Speaker Topic: Cave Exploration in Brazil
13:00-13:55	Panel Discussion: Modrator: Nicolas Remy Speakers: Matty Smith, Richard Fitpatrick, Mike Scotland, Vanessa Mignon, Scott Portelli, Nicole Miller	Panel Discussion Topic: Animal Behaviour Photography
14:00-14:25	Speaker Name: Robin Philippo	Speaker Topic: From Rubble to Reef: Rehabilitating Sloping Reefs After Blast Fishing Using 3D Printing—Without a Printer in Sight
14:30-14:55	Speaker Name: Ben de Groot	Speaker Topic: ISC Certification, Dive Centres and Training

15:00-15:25	Speaker Name: Elsie Gabriel	Speaker Topic: Empowering scuba divers as ocean literacy leaders to drive conservation and global change
15:30-15:55	Speaker Name: Carmen Bolton	Speaker Topic: From White to Bright: Monitoring reef health and recovery on the Southern Great Barrier Reef
16:00-16:25	Speaker Name: Edward Lai	Speaker Topic: What I was thinking

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TIME	SPEAKER	TOPICS
9:00	Emcee: Sue Crowe	OZTek Conference Opening Address
09:01-09:45	Speaker Name: Frederic Swiercznski	Speaker Topic: New world record for cave diving exploration. During a 7-hours dive in the Font Estramar of the Eastern Pyrenees, french speleonaut Frédéric Swierczynski reached an astonishing depth of -308m!
10:00-10:45	Speaker Name: Dr Frauke Tillmans	Speaker Topic: What Do We Know About Rebreather Safety? What kills rebreather divers? In this talk we'll be taking a look at the rapidly growing rebreather community, including the accidents that have occurred and some numbers that may help estimate the size of the rebreather community. The number of newly certified CCR divers has increased from an estimated 2,000 in 2013 to over 3,000 today, which is in line with the growth in CCR sales. This talk will also cover what we know about the confirmed CCR fatalities from 2013 to 2022, including root cause analyses of the cause of death where possible. Finally, we'll also highlight challenges in data acquisition and analysis.
11:00-11:45	Speaker Name: Mikko Paasi	Speaker Topic: Bottomline Projects Foundation - a Sandbox for all passionate explorers
12:00-12:30	Speaker Name: Nicole Miller	Speaker Topic: How bringing together the Rec, Tech, Science, Conservation communities made a difference - A story about Seaweed
13:00-13:45	Speaker Name: Prof Simon Mitchell	Speaker Topic: Hypoxia: Can You Train To Recognise A Silent Killer?
14:00-14:45	Speaker Name: Yoshitaka Isaji	Speaker Topic: Exploration and tech diving in Japan
15:00-15:45	Speaker Name: Chen Qian Charlie	Speaker Topic: Story of my 258M cave diving at DaXing Spring, China
16:00-16:45	Speaker Name: Andrew Oakely / Alex Aberle-Leeming Gareth Glasgow	Speaker Topic: WreckSpLoration: Discovering, identifying, and 3D modelling shipwrecks in 100m and deeper off Western Australia. WreckSpLoration will also be presenting the recent discovery of the wreck of the Dutch Submarine the HNLMS K XI in Perth Waters.
17:00-18:00	Speaker Name: Peter Buzzacott Beth Jones Aren Leishman	Speaker Topic: Scuba diving may cause venous gas emboli (VGE) in tissues, due to supersaturated inert gas. Our research team from Western Australia have been looking at 1) How diving VGE are measured 2) What sort of diving researchers use to generate bubbles, 3) And what factors are known to influence bubbles in scuba divers. After describing all this, we will conclude with recent efforts to develop an empirically-based bubble model, and wondering aloud what the near future might hold for diving bubble-models.
SUNDAY, 16th MARCH 2025		
TIME	SPEAKER	TOPICS
08:30-09:15	Speaker Name: Frederic Swiercznski	Speaker Topic: New world record for cave diving exploration. During a 7-hours dive in the Font Estramar of the Eastern Pyrenees, french speleonaut Frédéric Swierczynski reached an astonishing depth of -308m!
09:30-10:15	Speaker Name: John Garvin	Speaker Topic: Engineering Underwater Pandora. A behind-the-scenes look at James Cameron's Avatar- The Way of Water and Avatar - Fire and Ash
10:30-11:00	Speaker Name: John Garvin & Brett Murray	Speaker Topic: Last Breath - The Movie How a saturation diving movie was filmed. Q & A session about the complexities and how it was accomplished
11:15-12:00	Speaker Name: David Strike	Speaker Topic: Cautionary Tales for Tekkies: Diving mishaps and misdemeanours
12:15-13:00	Speaker Name: Luis Sanchez	Speaker Topic: Deep Cave exploration in Mexican North East Caves.
13:30-14:15	Speaker Name: Mikko Paasi	Speaker Topic: The discovery of the longest underwater cave system in Thailand
14:30-15:15	Speaker Name: Dr James Hunter	Speaker Topic: Nineteenth-century Dutch shipwrecks in Australia
15:30-16:15	Speaker Name: Patrick Widmann	Speaker Topic: Cave Exploration in Madagascar
16:30-17:00	Speaker Name: Parasu "Por" Komaradat	Speaker Topic: Exploring UW mines in Asia

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TIME	SPEAKER	TOPICS
	Emcee: Richard Taylor	
10:00-10:45	Speaker Name: Josh Richards William Passos	Speaker Topic: Double or Nothing: Pushing the Limits in Mount Gambier's Cave Systems The Soggy Wombats cave exploration team has repeatedly discovered new extensions in well known caves throughout the Mount Gambier region using a fusion of cave geology, photogrammetry, and advanced survey techniques. This presentation will dive into the pivotal role of cave geology played in the discovery of Englebrecht's Extension, the groundbreaking use of photogrammetry helped reveal the Iddlebidy Extension, and how the integration and refinement of these techniques has recent led to the discovery of the "Crazy Wombat Tunnel" in Pines Cave. Will and Josh will highlight the cutting-edge tools and methodologies transforming underwater cave exploration, pushing past the traditional limits, and reshaping our understanding of Australia's richest underwater cave region.
11:00-11:45	Speaker Name: Mike Mason	Speaker Topic: Stories from the deep - Why learning isn't easy, what you can do to change that.
12:00-12:30	Speaker Name: Nays Baghai	Speaker Topic: How Tech diving influences me as a film maker
13:00-13:45	Speaker Name: Kevin Black	Speaker Topic: Buying your first Rebreather: Rebreather diving opens up a whole new world of possibilities for divers—longer bottom times, silent exploration, and access to deeper, more challenging environments. But with so many different units on the market, choosing your first rebreather can feel overwhelming. The most common question I get asked from divers wanting to get into rebreather diving is which unit they should buy. Kevin will guide you through the key factors to consider when selecting a rebreather to suit your diving goals, experience level, and budget. From understanding the differences between manual, and fully electronic CCRs to evaluating training requirements, maintenance, and real-world usability, we'll break down what you need to know before making this important investment.
14:00-14:45	Speaker Name: Dr Frauke Tillmans	Speaker Topic: <i>Unfortunately Rachel Lance is unable to attend the show due to an accident and badly broken arm requiring surgery - however, Dr Frauke Tillmans has kindly agreed to present Rachel's research finding in her place.</i> Oxygen toxicity update: where the guidelines come from, what pushing them means, and what we know about mechanisms
15:00-15:45	Speaker Name: Matt Reed	Speaker Topic: Thresher Sharks of Malapascua Conservation, community & CCR Rebreathers
16:00-16:45	Speaker Name: Robin Cuesta	Speaker Topic: Expedition Buteng - When Science Meets Exploration Cave Diving Exploration, A Tool for Groundwater Conservation
17:00-17:30	Speaker Name: Chen Qian Charlie & Craig Challen	Speaker Topic: The first Aussie-Chinese joint deep cave exploration to 252M at Sheng-Loong Sinkhole, China
17:35-18:00	Speaker Name: Richard Taylor	Speaker Topic: The Fall & Decline of Tech Shows

SUNDAY, 16th MARCH 2025		
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08:30-09:15	Speaker Name: Peter Buzzacott	Speaker Topic: Diving in the People's Republic of China – breath-hold, rec and tech in the Far East
09:30-10:15	Speaker Name: Dr Matt Carter	Speaker Topic: Update on Mapping WWII Wrecks with CCR and Photogrammetry and satellite technology - Ghost Fleets of the Pacific
10:30-11:00	Speaker Name: Dr Xavier Vrijdag	Speaker Topic: Hypercapnia in Diving
11:15-12:00	Speaker Name: Prof Simon Mitchell	Speaker Topic: Immersion Pulmonary Oedema: Diving's Autism
12:15-13:00	Speaker Name: Andrew Oakely	Speaker Topic: Building and diving a Dual JJ-CCR and successfully using it to explore to 240m in China.
13:30-14:15	Speaker Name: Michael Menduno	Speaker Topic: An Overview of the Tech Rebreather Market: A Technologist's Perspective
14:30-15:15	Speaker Name: Stephen Fordyce	Speaker Topic: Master cave or bust: Growling Swallet Tasmania
15:30-16:15	Speaker Name: Dr Frauke Tillmans	Speaker Topic: How Feasible Is Personalised Decompression? Are we there yet? In this talk, Dr. Tillmans will explore the intriguing topic of personalized decompression and its connection to bubble formation and individual physiology. With a focus on understanding the complexities of decompression stress and its relationship to DCS risk, we will dive into the challenges faced by dive researchers worldwide in studying individual physiology. We'll also discuss the limitations of current methods, explore the potential of new technologies, and outline why further research is needed.
16:30-17:00	Speaker Name: Robin Cuesta	Speaker Topic: Indonesia, The New Eldorado of Cave Diving Exploration

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