



THE
OCEAN COLLECTIVE
SUMMIT 2023

PROGRAMME BOOKLET

2ND & 3RD NOVEMBER 2023



THE
OCEAN COLLECTIVE
SUMMIT 2023

PROGRAMME

0900	Blue Water EduFest Press Conference
0915	Attendee Registration & Morning Tea Networking Session
1015	Ballroom Doors Open
1025	Commencement Of The Conference
1030	Welcome Address Arthur Tay / Chairman, SUTL
1040	Opening Of The Ocean Collective Summit 2023 Jay Wade / Chairman, The International SeaKeepers Society
1050	Combining Technology And Sustainability To Protect Our Ocean Fabien Cousteau / Aquanaut, Oceanographic Explorer, Environmental Advocate and Founder, Fabien Cousteau Ocean Learning Centre & Proteus Ocean Group
1110	Unlocking Our Ocean's Potential – Innovative Solutions To Conservation Jeremy McKane / CEO, OCN.ai
1130	Short Break
1140	Fireside Chat – A Conversation With Fabien And Jeremy Fabien Cousteau & Jeremy McKane
1200	Seabed 2030 Project – Emerging Seabed Mapping Jamie McMichael-Phillips / Director, Nippon Foundation-GEBCO Seabed 2030 Project
1230	Lunch
1345	Audience Engagement Activity: Kahoot Quiz Paul Foster
1400	Fireside Chat – Implications Of The High Sea Treaty Rena Lee / Ambassador For International Law Moderator: Stephen Beng / Head ESG Strategy, Phillip Capital Management
1430	Effective Coastal City And Settlement Adaption To Manage Climate Change Risks Dr Winston Chow / Associate Professor of Urban Climate and Lee Kong Chian Research Fellow, Singapore Management University's (SMU) College of Integrative Studies
1500	Development Of Innovative Coastal Protection And Flood Management Solutions Zoe Ong / Senior Assistant Director, Coastal Protection Department, PUB, The National Water Agency Singapore
1530	Short Break
1540	Innovators Series – Innovative Youngsters Melati Riyanto Wijzen / Founder, Bye Bye Plastic Bags and YOUTHTOPIA
1550	Innovators Series – Innovative Journeys Dr Louisa Ponnampalam / Co-Founder, MareCet Research Organisation
1610	Innovators Series – Innovative Collaborations Thanda Ko Gyi / Founder, Myanmar Ocean Project
1620	Brainstorm Session Preparation And Challenge Paul Foster
1635	Tea Break Networking Session
1700	Blue Water EduFest Welcome Cocktail Meet The Blue Water Heroes & Fantasiu VR Corner

0830	Morning Coffee and Tea
0900	Commencement Of The Conference / Welcome And Recap Paul Foster
0915	Unlocking A Sustainable Future With Ocean Innovation And Finance Dr Ying Qin / Global Thematic Analyst, Citi Global Insights
0945	Panel Discussion – Blue Carbon: Challenges And Opportunities George Foulsham / Director, DHI Dr Jani Tanzil / Facility Director, St John's Island National Marine Laboratory Dr Siti Maryam Yaakub / Senior Director, International Blue Carbon Institute Moderator: Ms Kong Man Jing (MJ) / Co-Founder, Just Keep Thinking
1030	Short Break
1045	Tackling Plastic Pollution – Implications Of The Plastic Treaty Wendy Wong / Programme Head, Diploma in Applied Science (Environmental Services and Management), Republic Polytechnic
1115	Tackling Plastic Pollution – Microplastic Mitigation: The Searial Cleaners' Eco-Friendly Solutions In Asia Antoine Repiton-Préneuf / Business Development Manager - Asia Pacific, The Searial Cleaners
1135	Tackling Plastic Pollution – Recycling And Circular Economy Solutions Benjamin Chay / Founder, Green Earth Sustainability Bridge (GESB)
1200	Lunch
1315	Harmonising Nature & Purpose – Purpose Driven Yachting And Ocean Conservation Micca Ferrero / Owner, ICON Yachts
1335	Harmonising Nature & Purpose – Institutional Conservation For The Sundarbans Enayetullah Khan / Founder, Cosmos Foundation and WildTeam
1355	Harmonising Nature & Purpose – Imagining Our Future Ocean Cesar Jung-Harada / Associate Professor in Design, Singapore Institute of Technology
1415	Brainstorm Session – Creating Measurable Impact For Your Sustainability Efforts - Republic Polytechnic Project Presentation - Group Brainstorm and Presentation Fabien Cousteau, Jeremy McKane
1545	Closing Remarks Fabien Cousteau, Julian Chang





THE
OCEAN COLLECTIVE
SUMMIT 2023

SPEAKER PROFILES



ARTHUR TAY

Chairman and CEO

SUTL Group of Companies

As Chairman and CEO of the SUTL Group of Companies, Mr Tay actively oversees its core activities across Asia. Under his leadership, SUTL has expanded into three key business units, including Leisure Lifestyle, Environmental, and Consumer Goods, facilitating logistics in over 18 Asian countries. Being an avid and seasoned boater and diver, his focus is on developing marina infrastructure, particularly for the growing superyacht community. Notably, SUTL Enterprise, a subsidiary, is the only listed marina business on the Singapore Exchange. Driven by his passion for advocating excellence in sustainability and coastal conservation, he initiated the inaugural Blue Water EduFest which was held in November 2022 in Singapore, with plans to expand the event to the rest of Asia.



Topic: Welcome Address





JAY WADE

President

The International SeaKeepers Society

Mr. Wade joined The International SeaKeepers Society in 2003, becoming a Founding Member and subsequently a Board Member in 2006. His lifelong passion for the oceans drew him to the mission of ocean conservation and the unique role that the yachting community plays in addressing our seas' challenges. Since assuming the positions of Chairman and President of SeaKeepers in 2019, Mr Wade has been leading the organization's initiatives, with adopting sustainability measures across all platforms of the yachting industry and focusing on next generation learning forming the key focus of his leadership. Currently, Mr Wade splits his time between Oklahoma Technology Solutions, an information technology professional services firm, Fresh Fit Meals, a manufacturer of freshly prepared meals for health-conscious busy people and Flyover Software, a software development company.



**Topic: Opening Of The Ocean
Collective Summit 2023**



THE
OCEAN COLLECTIVE
SUMMIT 2023



JULIAN CHANG

President

The International SeaKeepers Society, Asia

With over 35 years of involvement in the offshore and yachting industry, Mr Chang's expertise is in the use of marine technology and innovation to enhance operational performance, increase safety, protect capital investments and improve product quality,

Mr Chang has been involved in building and managing a total of 620 maritime projects. His pursuit of quality was awarded with several prestigious yachting awards from Monaco and Asia. Being one of the earliest yachting enthusiasts in Asia he has explored most of its pristine waters stretching from the Maldives to the Great Barrier Reef, and loves to share his experience, knowledge and passion for boating and the ocean with new and existing yacht owners.

To protect what he loves, Mr Chang is a Board Member of The International SeaKeepers Society and President, International SeaKeepers Society, Asia. Believing that environmental protection is best done through marine conservation he is passionate about sustainability and responsible investment strategies to protect our oceans. With a vision for the next generation to become better stewards of our oceans., his goal is to spread the awareness for the need to protect and conserve our oceans and the marine ecosystems in Asia and beyond.



Topic: Closing Remarks





FABIEN COUSTEAU

Aquanaut, Oceanographic Explorer, Environmental Advocate, Founder
Fabien Cousteau Ocean Learning Center Proteus Ocean Group

As the first grandson of Jacques-Yves Cousteau, Mr Cousteau spent his early years aboard his famous grandfather's ships, Calypso and Alcione; learning how to scuba dive on his fourth birthday. In 2016 he founded his non-profit, the Fabien Cousteau Ocean Learning Center (FCOLC) to fulfil his dream of creating a vehicle to make a positive change for the Ocean. Currently Mr Cousteau dedicates much of his time to PROTEUS™, the International Space Station of the Ocean and the initiatives of his non-profit, Sea Turtle Conservation and Women Empowerment, Coral Reef Resilience, Beach Clean Ups, Ocean Discovery Educational Curriculum Program and other marine restoration programs.

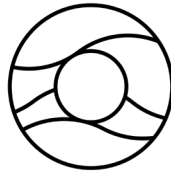
Mr Cousteau is the Co-Founder and Chairman of the Board for Proteus Ocean Group (POG), an Explorers Club Member and a WWF Ocean Witness. He is a Board Member of River Keepers and the Sea Keepers Science Council and has been recently named Honorary Advisor to the NGO Committee Sustainable Development-NY. He has received several awards including Travel & Leisure's 2022 Global Vision Award, the United Nations NEXUS Global Goals Award for Excellence and Leadership, David Attenborough Excellence in Filmmaking Award, Golden Eagle Award, Beneath The Sea Diver of The Year, World Team "Pioneer For The Planet" Award, Peter Benchley Lifetime Award and is the ISS (International Super Yacht Society) Awards Judge and creator of the ISS Fabien Cousteau BLUE Award.



Topic: Combining Technology And Sustainability To Protect Our Ocean



Sustainability and technology are intertwined, and not only do they often seek to reduce the environmental impact for the Ocean planet, but they also offer strategic outcomes that can drive conservation. In his keynote address, Fabien Cousteau - renowned Aquanaut, and Founder of the Fabien Cousteau Ocean Learning Center and PROTEUS™ - will explore the intricate link between sustainability and technology. He will delve into the various solutions that are laying the groundwork to minimise risk and maximise opportunities for the ocean. With a focus on long-term sustainability goals, Fabien will highlight key examples of technologies that are revolutionising ocean conservation. From artificial intelligence and machine learning to digital twins and the Internet of Things, these innovative solutions are leading the way towards greater mitigation and reduction of pressures on the ocean. Don't miss this rare opportunity to hear from one of the top voices in ocean conservation!



JEREMY MCKANE

CEO

OCN.ai

Mr McKane, an artist with a background in technology, weaves his passion for the environment into every facet of his work. Exhibited around the world, his art integrates technology with thought-provoking imagery, shining a spotlight on critical ocean issues and inspiring action.

When he is not underwater taking photographs, he can be found on land, as CEO of OCN.ai Born from Mr McKane's commitment to the ocean, OCN.ai creates technology to monitor the health of the ocean and create trackable solutions for a regenerative economy. He is also the founder of OCEAN™, a visionary initiative that seeks to protect our oceans by reducing enforcement expenses and defining value with the biodiversity that exists within. Beyond his professional pursuits, Mr. McKane co-founded the annual Ultramarine gathering on Necker Island, uniting global influencers to catalyse positive change for our planet's oceans.



Topic: Unlocking Our Potential – Innovative Solutions To Conservation



Technology-based solutions offer unprecedented opportunities to greatly improve our understanding of the ocean and drive impactful conservation efforts. During this session, Jeremy will discuss key technological innovations in ocean conservation, with a focus on OCN.ai's groundbreaking BlueSense™ platform. This keynote address will explore the unique approaches that contribute to essential data, guiding investments in carbon credits and environmental assets. But technology is just one piece of the puzzle. Collaboration with local communities and governments is essential to creating long-term, decentralised engagements that drive revenue and job creation, while providing transformative impact on ocean conservation efforts. Join this session for insights into the critical importance of cross-sector partnerships and the unexplored potential of the ocean, and the potential of a balanced approach to economic growth and environmental stewardship.





THE NIPPON FOUNDATION-GEBCO

SEABED
 **2030**

JAMIE MCMICHAEL-PHILLIPS

Director

The Nippon Foundation-GEBCO Seabed 2030 Project

Mr. McMichael-Phillips, a hydrographic surveyor and esteemed former Royal Navy captain has worked in leadership roles that span a wide spectrum, from running his own marine data-gathering missions to directing geospatial strategy and plans for the United Kingdom. His extensive experience includes managing government-to-government relationships for geospatial collaboration, as well as outreach and capacity building of fledgling organisations in marine data collection, assessment and cartography. For over 9 years, prior to his current role, Mr McMichael-Phillips chaired the International Hydrographic Organisation's Worldwide ENC Database Working Group, which is responsible for monitoring the global footprint electronic charts that are essential for safe navigation at sea.



Topic: Seabed 2030 Project – Emerging Seabed Mapping



Ocean knowledge is crucial to understanding Planet Earth, yet we still have much to learn about our seafloor, with 75% of it yet to be mapped. The Nippon Foundation-GEBCO Seabed 2030 Project (Seabed 2030) is a collaboration between The Nippon Foundation and the General Bathymetric Chart of the Oceans (GEBCO) that aims to produce the definitive GEBCO bathymetric map of the entire ocean by 2030. This will enable the world to make informed policy decisions, use the ocean sustainably, and undertake scientific research that is based on detailed knowledge of seafloor topography. As a pioneering initiative to map our final frontiers, Seabed 2030 relies on the goodwill and efforts of a global community of governments, industry, research, and philanthropic sectors, in combination with volunteer citizen scientists and contributors. The map of the seafloor is updated annually and is free to download and use – it is a public service for humanity by humanity. Join us and gain a deeper understanding of the key elements of this international project, as well as an overview of the challenges involved in such a global commitment, and how we can shape the way forward.





MINISTRY OF FOREIGN AFFAIRS
SINGAPORE

RENA LEE

Ambassador for International Law

Rena Lee is Singapore's Ambassador for International Law and Chief Executive of the Intellectual Property Office of Singapore (IPOS). Rena joined the Singapore public service in 1992 and has served in a number of roles, including with the Attorney-General's Chambers and the Ministry of Foreign Affairs. She specialises in public international law, covering diverse areas including law of the sea, environmental and climate change law, humanitarian and human rights law. Rena was most recently Ambassador for Oceans and Law of the Sea Issues and Special Envoy of the Minister for Foreign Affairs. In this capacity, Rena was elected President of the BBNJ IGC in 2018 and served until the conclusion of the negotiations in 2023. Rena was also a member of the Legal and Technical Commission of the International Seabed Authority from 2017 to 2022.

Topic: Fireside Chat – A Conversation On The Implications of the High Sea Treaty

The Biodiversity Beyond National Jurisdiction Treaty Agreement (BBNJ), commonly referred to as The High Seas Treaty, marked a significant achievement in the realm of biodiversity conservation and sustainable utilisation beyond national borders when it was made available for signature during the United Nations General Assembly High-Level Week in September 2023. It addresses regulatory gaps in the protection of the marine environment and resources in the high seas and deep seabed, which has hitherto been fragmented across various sectoral and regional bodies.

As of 2 November 2023, 82 countries have signed the BBNJ Agreement which shows a high level of international commitment to the BBNJ process. This is particularly important for Small Island Developing States (SIDS) like Singapore that depend on the oceans and their biodiversity for our livelihoods. It also marks a significant step forward for the implementation of Sustainable Development Goal 14 – in particular, to conserve and sustainably use the oceans, sea and marine resources for sustainable development.



DR WINSTON CHOW

Associate Professor of Urban Climate and Lee Kong Chian Research Fellow
Singapore Management University's (SMU) College of Integrative Studies

Dr. Winston Chow is a leading urban climate expert. His research and teaching at SMU focuses on urban climate impacts and sustainability.

Dr. Chow also serves as the co-Lead Principal Investigator for the multi-institute Cooling Singapore Initiative. His portfolio includes lead author in the Intergovernmental Panel on Climate Change's (IPCC) latest assessment on urban climate impacts and adaptation, where he contributed his expertise in evaluating the vulnerability of coastal cities to climate change. In July 2023, Dr. Chow was elected as Co-Chair of the IPCC's Working Group II, which is dedicated to assessing the impacts, vulnerability, and adaptation of climate change for the Seventh Assessment Cycle from 2023 to 2030. The IPCC, the United Nations' authoritative body for climate change information, relies on experts like Dr. Chow to guide global stakeholders and governments in addressing critical climate challenges.

Topic: What Happens When The Sea Rises? Effective Coastal City And Settlement Adaptation To Manage Climate Change Risks

The Intergovernmental Panel on Climate Change (IPCC) has assessed that current climate impacts are likely to worsen across multiple human-natural systems. Coastal communities in the Southeast Asian region face disproportionately high risks without urgent and coordinated action. This talk examines the levels of risk that regional coastal communities encounter as sea levels rise. It also delves into short-term climate action, such as the Paris Agreement and the Singapore Green Plan, as they gain momentum by 2030. One essential component of enhancing climate resilience in these communities involves planned and executed adaptation strategies that blend technology with nature-based and social policies, ensuring inclusivity of stakeholders, particularly local communities. Discover how gaps in successful adaptation to climate risks can be rapidly closed through meticulous planning and adequate financing of such initiatives.



ZOE ONG

Senior Assistant Director, Coastal Protection Department
PUB, The National Water Agency Singapore

As a key member of the Coastal Protection Department at PUB, Ms Ong plays a pivotal role in spearheading whole-of-nation initiatives to protect Singapore from the threats of sea level rise. Currently, she leads the Site-Specific Study at the Northwest Coast of Singapore which aims to develop a climate-resilient master plan and integrated solutions for coastal protection and stormwater management. With a strong background in land development, dredging, reclamation, and environmental studies, Ms Ong obtained her Bachelor of Engineering (Environmental) in 2011, followed by a Master of Science (Project Management) in 2015 from the National University of Singapore (NUS).

Topic: Development Of Innovative Coastal Protection And Flood Management Solutions

Climate change is resulting in more extreme weather patterns, posing an existential threat to coastal cities like Singapore, which are particularly vulnerable due to their low-lying nature. Since being appointed the national coastal protection agency in 2020, PUB has gone beyond its role in draining planning and stormwater management and embarked on master-planning and site-specific studies, strengthened competencies in coastal hydrodynamic modelling, and launched research initiatives to develop effective strategies to safeguard Singapore's resilience against the impacts of climate change.

Singapore faces additional challenges due to its limited land, high urbanisation, and dense population, while the rate and extent of sea level rise remain uncertain. However, we believe these uncertainties present opportunities to recreate our coastal areas, and with this aim in mind, the Coastal Protection and Flood Resilience Institute (CFI) Singapore was launched to spearhead research and development. In this session, you will learn about the development of innovative, flexible, and multi-functional solutions for coastal protection and flood management.



MELATI RIYANTO WIJSEN

Founder

Bye Bye Plastic Bags and YOUTHTOPIA

Melati Wijssen, a full-time changemaker and movement builder, embarked on her mission to protect our planet and its oceans before she even became a teenager. In the 10 years of starting Bye Bye Plastic Bags (BBPB) with her sister Isabel, their organisation has successfully mobilised over hundreds of thousands of individuals across Bali and beyond, distributing 11,000 educational booklets and empowering youth everywhere to lead by example. Melati believes that education is key and today focuses her energy on building YOUTHTOPIA to become the go to learning platform for Changemakers. Her inspiring journey is depicted in the documentary film "Bigger than Us," directed by Flore Vasseur and produced by Marion Cotillard. The film is about Melati's global adventure to find like-minded peers who can inspire her and show her even more innovative ways to create change!

Topic: Innovators Series - Innovative Youngsters

In her role as the Founder of Bye Bye Plastic Bags (BBPB) and YOUTHTOPIA, Melati offers valuable insights into engaging youth in the battle against single-use plastics. Leveraging her extensive expertise gained from the BBPB journey, she emphasises the crucial role of integrating the "Innovative Youth" theme into this important initiative. We will delve into the practical experiences and hurdles faced on this journey, drawing from the combined experiences of BBPB and YOUTHTOPIA.

Melati's presentation sheds light on the challenges that often arise when working with young individuals and offers valuable insights on how to overcome these hurdles. She addresses the critical issue of volunteer management, presenting a problem statement that dives into the complexities of coordinating and guiding a diverse group of passionate volunteers toward a common goal.





DR LOUISA PONNAMPALAM

Co-Founder

Marecet Research Organisation

Dr. Louisa Ponnampalam is the co-founder of The MareCet Research Organisation, Malaysia's pioneering non-profit NGO dedicated to the research and conservation of marine mammals and their habitats.

Pronounced ma-rei-set, a combination of the Latin word "mare" for sea and Cetacean, the scientific grouping of whales, dolphins and porpoises, the organisation is the cetacean ecologist's realisation of a childhood dream to protect the rich biodiversity beneath our waters.

Ten years into its conception, MareCet has become a recognised leader in marine mammal science and marine conservation. Over the past decade, it has established four conservation-based research projects across Malaysia and engaged with thousands of people, including students and the general public, through outreach and education. In 2019, MareCet's research findings led to the recognition of three sites in Peninsular Malaysia as Important Marine Mammal Areas by the International Union for Conservation of Nature.

Dr. Ponnampalam is a Pew Marine Fellow, a testament to her sheer efforts in the field of marine conservation.

Topic: Innovators Series – Innovative Journeys Keep Swimming – Marecet's Innovative Journey in Marine Conservation

What does it mean to live out a childhood dream? What does it take to turn that dream into a reality and keep it alive? The MareCet Research Organisation, a grassroots NGO founded in Malaysia in 2012, has its roots in the childhood aspirations of its co-founders, Dr. Louisa Ponnampalam and Fairul Izmal Jamal Hisne.

Despite facing doubts and discouragement from various quarters about MareCet's ability to fulfill its mission, this is the tale of how two young co-founders, initially trained as scientists, ventured into the unknown armed with just a few dollars in their pockets. Their motivation? A lifelong passion for marine mammals and a burning desire to advance the science and conservation of these captivating creatures within their home country.

A decade later, MareCet stands as a thriving and fully-fledged conservation NGO, leading the charge in marine mammal science and conservation in Malaysia. It boasts an extensive network of supporters and collaborators, both nationally and internationally. In this presentation, Dr. Ponnampalam will delve into the trials and challenges that accompanied MareCet's growth into the marine conservation powerhouse it has become today.



THANDA KO GYI

Co-Founder

Myanmar Ocean Project

Driven by a first-hand encounter with the devastating impact of fishing nets on marine life, this passionate diver founded Myanmar Ocean Project, the country's pioneering non-profit organisation for ocean conservation. Since 2018, she has devoted her life to studying the extent and consequences of Abandoned, Lost, or Otherwise Discarded Fishing Gear (ALDFG) in Myanmar. In 2019, supported by the National Geographic Society, Ocean Conservancy, and Global Ghost Gear Initiative, Thanda Ko Gyi and her team embarked on a year-long expedition in the Myeik Archipelago to investigate ALDFG. To date, her organisation has surveyed nearly 90 sites across the archipelago, removing over 1,800 kilograms of harmful fishing nets and rescuing hundreds of marine animals.

They work closely with the fishing communities to identify ALDFG hotspots and understand the root causes and impact of discarded fishing gear. Currently, Thanda Ko Gyi is working to implement Myanmar Ocean Project, Disposal Rig for Ocean Plastic (MOPDROP), a collection shed for end-of-life fishing gear and other ocean-bound plastics.

Topic: Innovators Series - Innovative Collaborations

The little-explored Myeik Archipelago, in Myanmar's southern coast, stretches across 800 islands hosting diverse marine ecosystems and many charismatic endangered marine species including oceanic manta rays, dugongs and several species of sharks and marine turtles.

With no active management of marine protected areas and almost no eyes on what's going on underwater, Myanmar Ocean Project's (MOP) expeditions have set out to systematically gather data on the extent of Abandoned, Lost, or Discarded Fishing Gear (ALDFG) prevalence. MOP's survey expeditions collaborate with fishers, island communities and volunteer divers. Together they find region-appropriate solutions, identify ALDFG hotspots and main causes of loss of gear and train scuba divers to survey and retrieve ghost gear safely.

During their expeditions, the team engage extensively with fishers and island community members to understand their problems with ALDFG and potential problem areas.

Data is also collected by examining the reports of ALDFG sightings from scuba dive liveaboard operators.

The findings are concerning. Ghost gear is prevalent in Myeik Archipelago and quick action is needed to reduce the intensity of ALDFG ending up in our ocean. There is sufficient evidence of ALDFG destroying coral reefs and completely smothering seafloors.

MOP continues to collaborate with fishers who play a key role in helping to understand how best to support them to collect end-of-life fishing gear and reduce and prevent ALDFG from ending up in our ocean.



Private Bank

YING QIN

Global Thematic Analyst

Citi Global Insights

A PhD holder PhD in sustainable development from the University of Cambridge, Dr. Ying Qin is a global thematic analyst at Citi's Global Insights division who specialises in ESG and sustainability with a unique focus on Nature and Gender. Her contributions to Citi's thought leadership reports, including the highly regarded Citi GPS series, encompass climate change, nature loss, UN Sustainable Development Goals, and Women in the Economy. Her latest work, "Sustainable Ocean Economy - Charting a Prosperous Blue Future from Risk to Resilience," explores the importance of ocean sustainability and the role of businesses and financial institutions in fostering awareness, catalysing action, and directing finance toward ocean conservation. Before her tenure at Citi, Dr. Qin worked at policy think tank Chatham House.



Topic: Unlocking A Sustainable Future With Ocean Innovation And Finance



Ocean health is declining. It is not a silo-ed issue but one intrinsically connected to climate change and the loss of biodiversity, impacting both land-based and marine industries. Now more than ever, we must protect and restore our oceans and learn to use them in more sustainable ways. However, ocean health remains overlooked and underfunded in business and finance; UN SDG 14: Life below water, the global goal for ocean conservation, receives the least funding. We need to mobilise more finance, especially private capital, to support the conservation and sustainable use of our oceans and their resources.

A sustainable ocean economy can bring economic, environmental, and social benefits, providing opportunities for corporations and investors. Restoring ocean health and transforming unsustainable practices are driving innovation across industries, from ocean-based climate solutions and sustainable seafood to ocean intelligence and innovative financial tools. Join us to explore the business and investment case for ocean action, with a focus on innovative ocean solutions that can help to unlock a sustainable and prosperous future.





GEORGE FOULSHAM

Director

DHI

Mr Foulsham brings two decades of environmental expertise and extensive project management skills to his role. Within DHI, he has successfully overseen a diverse portfolio of projects that span environmental baseline studies, historical land use assessments, pollution control investigations, environmental impact assessments, construction environmental monitoring and management plans, environmental audits, and due diligence studies. His proficiency extends across various sectors, including linear infrastructure, oil and gas, heavy industry, land development, and services to commercial and government clients. Mr. Foulsham's core specialty lies in water quality and marine ecosystems, with a particular focus on conservation and restoration efforts that incorporate sustainability in construction and nature-based solutions.



Topic: Panel Discussion – Blue Carbon: Challenges And Opportunities



Blue Carbon is gaining traction in carbon credit development, shifting from the traditional focus on generating "green" credits from land-based ecosystems like forests. The "Challenges of Implementing Blue Carbon Market" panel explores barriers in expanding blue carbon projects amid rising global interest and costly accreditation processes and soil carbon oversight that hinder progress.

DHI's advanced ecosystem carbon model offers potential solutions. Their advanced carbon sequestration model, powered by MIKE Powered by DHI software, offers precise site-specific insights into carbon storage capabilities. These innovative models have the potential to transform the accreditation of blue carbon, potentially altering our approach to climate change mitigation.

A central theme of the discussion will be the often-overlooked role of coral reefs in carbon balance. Coral reefs' role in carbon balances and their interconnectedness with ecosystems like seagrass meadows will be discussed, emphasizing conservation's importance.

The challenges are substantial, with declining coral reefs and urgent greenhouse gas reduction needs. Active interventions and ecosystem preservation are essential, recognizing marine ecosystems as more than carbon storage but also contributors to biodiversity, coastal protection, and socio-economic activities. The panel seeks to illuminate these challenges and guide climate change mitigation efforts.





DR JANI TANZIL

Facility Director

St. John's Island National Marine Laboratory

Dr. Jani Tanzil is a marine ecologist known for her research on corals and marine ecosystem dynamics. Focusing on understanding the marine environment and coral responses to climate and environmental challenges, she hopes her work will improve strategies for environmental assessments, resource management policies, and ecosystem recovery. She holds an MSc in Tropical Coastal Management from the University of Newcastle upon Tyne and a PhD in Computational Science from the University of Amsterdam which involved using coral "bands" to reconstruct historical coral growth rates in Southeast Asia. Currently, she serves as Facility Director of the St. John's Island National Marine Laboratory and is a Senior Research Fellow at NUS' Tropical Marine Science Institute. Additionally in Singapore, she leads the Marine Environment Sensing Network project as well as a reef restoration research project.

Topic: Panel Discussion – Blue Carbon: Challenges And Opportunities

Blue Carbon is gaining traction in carbon credit development, shifting from the traditional focus on generating "green" credits from land-based ecosystems like forests. The "Challenges of Implementing Blue Carbon Market" panel explores barriers in expanding blue carbon projects amid rising global interest and costly accreditation processes and soil carbon oversight that hinder progress.

DHI's advanced ecosystem carbon model offers potential solutions. Their advanced carbon sequestration model, powered by MIKE Powered by DHI software, offers precise site-specific insights into carbon storage capabilities. These innovative models have the potential to transform the accreditation of blue carbon, potentially altering our approach to climate change mitigation.

A central theme of the discussion will be the often-overlooked role of coral reefs in carbon balance. Coral reefs' role in carbon balances and their interconnectedness with ecosystems like seagrass meadows will be discussed, emphasizing conservation's importance.

The challenges are substantial, with declining coral reefs and urgent greenhouse gas reduction needs. Active interventions and ecosystem preservation are essential, recognizing marine ecosystems as more than carbon storage but also contributors to biodiversity, coastal protection, and socio-economic activities. The panel seeks to illuminate these challenges and guide climate change mitigation efforts.



DR SITI MARYAM YAAKUB

Senior Director

International Blue Carbon Institute

Dr Siti Maryam Yaakub leads the International Blue Carbon Institute's global efforts in translating blue carbon science into tools and methodologies for climate mitigation and adaptation. Based in Singapore, she spearheads initiatives aimed at fostering multidisciplinary expertise and cultivating a resource hub for knowledge exchange. As a distinguished marine ecologist, her work spans tropical marine and coastal habitats. Her portfolio and research interests encompass the areas of ecosystem restoration and nature-based solutions for adaptation and mitigation in marine environments. She has a special interest in using seagrass habitats as a model system for understanding ecological thresholds to stress, ecosystem resilience, and the effects of human activities and climate change on the marine environment.

Topic: Panel Discussion – Blue Carbon: Challenges And Opportunities

Blue Carbon is gaining traction in carbon credit development, shifting from the traditional focus on generating "green" credits from land-based ecosystems like forests. The "Challenges of Implementing Blue Carbon Market" panel explores barriers in expanding blue carbon projects amid rising global interest and costly accreditation processes and soil carbon oversight that hinder progress.

DHI's advanced ecosystem carbon model offers potential solutions. Their advanced carbon sequestration model, powered by MIKE Powered by DHI software, offers precise site-specific insights into carbon storage capabilities. These innovative models have the potential to transform the accreditation of blue carbon, potentially altering our approach to climate change mitigation.

A central theme of the discussion will be the often-overlooked role of coral reefs in carbon balance. Coral reefs' role in carbon balances and their interconnectedness with ecosystems like seagrass meadows will be discussed, emphasizing conservation's importance.

The challenges are substantial, with declining coral reefs and urgent greenhouse gas reduction needs. Active interventions and ecosystem preservation are essential, recognizing marine ecosystems as more than carbon storage but also contributors to biodiversity, coastal protection, and socio-economic activities. The panel seeks to illuminate these challenges and guide climate change mitigation efforts.



WENDY WONG

**Programme Head, Diploma in Applied Science
(Environmental Services and Management)**

Republic Polytechnic

With over two decades of various environment- and sustainability-related roles in government and education, Ms. Wong is a well-respected authority in the field of environment and sustainability. During her decade-long tenure at the National Environment Agency, she contributed to the formulation and execution of strategies and initiatives focussed on energy conservation and waste management.

In her current role as provider of Environmental, Social, and Governance training and consultancy services at Republic Polytechnic, Ms Wong launched the flagship Eco Ambassador Training Programme in partnership with the Singapore Environment Council. She is also a Mentor to sustainability professionals under the Singapore Business Federation's Career Conversion Programme. Ms Wong holds a Master of Laws in Environmental and Energy Law, and a Master of Science in Environmental Management.



Topic: Tackling Plastic Pollution: Implications of the Plastic Treaty



In March 2022, UN Member States endorsed a historic resolution to end plastic pollution and forge an international legally binding agreement by 2024. We must recognise the significance of this resolution and examine the Global Plastic Treaty to understand how it can help us achieve ambitious targets for combatting plastic pollution and marine litter. During this session, we will explore innovative approaches like plastic credits as a market-based mechanism to reduce plastic waste through incentivising and rewarding sustainable practices. These approaches are critical in promoting responsible plastic consumption, fostering circular economies, and encouraging investment in sustainable solutions. Learn about how the combined efforts of the Global Plastic Treaty and plastic credits can foster a culture of sustainability, driving positive change and curbing plastics pollution in the ocean.



ANTOINE REPITON-PRÉNEUF

Business Development Manager - Asia Pacific

The Searial Cleaners

With a rich background in international development, Antoine Repiton-Préneuf has made his mark across diverse regions, including Southeast Asia, South Africa, and Europe. Antoine's career trajectory underwent a significant transformation when he recognised the critical importance of addressing environmental challenges, leading to a career shift that propelled him to join The Searial Cleaners, a pioneering French company specialising in cutting-edge robotics and drone technologies dedicated to safeguarding marine and coastal ecosystems. Currently based in Bali, Antoine holds a leadership position, overseeing operations in the Asia Pacific region. His primary focus is on the implementation of cutting-edge electric technology solutions tailored to the unique environmental needs of the region. Antoine's unwavering dedication to driving sustainability and preserving marine and coastal ecosystems shines through his professional journey, guided by core values that drive his commitment to sustainability and making a positive impact on our planet's future.

Topic: Tackling Plastic Pollution: Microplastic Mitigation - The Searial Cleaners' Eco-Friendly Solutions in Asia

Plastic pollution has emerged as a pressing global concern, with Asia at the epicenter of this environmental crisis. Amidst this challenge, a new wave of CleanTech companies is rising, offering innovative and eco-friendly solutions to combat the plastic menace. One such trailblazer is The SearialCleaners: it specifically addresses the insidious small and micro debris littering beaches and shorelines. Unlike traditional cleanup methods which are often reliant on diesel engine-driven tractors and boats, the SearialCleaners' products and services are eco-sensitive - 100% electric and tailored to collecting microplastics while safeguarding local fauna and flora. Beyond mere cleanup, these solutions facilitate data collection and analysis, fostering education and prevention efforts. Collaborating closely with governments, NGOs, and corporations, they are on a mission to implement innovative and sustainable solutions that combat plastic pollution effectively. Be inspired by their dedication to preserving the environment and enlisting broad support - marking a promising step toward a cleaner, plastic-free future in Asia and beyond.



BENJAMIN CHAY

Founder

Green Earth Sustainability Bridge (GESB)

Mr. Chay is an experienced leader who worked at various MNCs within the commodities sector. He brings with him vast international experience having covered markets across Asia, US and Europe.

As an effective communicator and strategic thinker, he operationalises global best practices and scaled various businesses throughout his career.

In 2022, he founded Green Earth Sustainability Bridge (GESB) Pte. Ltd. to address issues close to his heart – incorporating sustainable practices within the commodity sector and building circular economies. GESB is registered with the Verra registry and has obtained partnerships from various carbon credit projects across South East Asia.

Mr. Chay was also advisor to several carbon credits projects and has ongoing engagements with educational institutions and industrial players to advocate for sustainable practices.

He is a strong believer that sustainability and profitability can find their balance in today's diverse market within any organisation.

Topic: Tackling Plastic Pollution: Recycling and Circular Economy Solutions

Plastic pollution is now so rampant that it has been labelled as a crisis. Many are uneducated and misinformed in terms of what plastic is, where it comes from, how it is made, and whether it truly can be reused or recycled. In many developed countries, consumerist wasteful behaviour also causes the plastic problem to persist, despite ample resources to reduce wastage. While there are breakthroughs in the development of compostable and biodegradable materials in the market materials, these alternatives are either too costly to mass produce or cannot achieve the same properties as some plastics. Not all plastics are created equal and in this session, participants will learn about the actual problems behind recycling plastics, circular economies, and why recycling alone cannot be the only solution - switching off the tap is presently the best way to stop the plastic crisis.



ICON
YACHTS

MICCA FERRERO

Owner

ICON Yachts

42-year-old Swiss lawyer and entrepreneur Micca Ferrero was born and raised in Lausanne, where he graduated and specialised in business law. He was then admitted to the bar and worked at a prominent law firm in Lugano. In 2010, Micca relocated to Monaco, where he currently resides with his family, overseeing an international group engaged in legal and financial activities. Micca's deep passion for the ocean was nurtured by his father and grandfather from a very young age. Combining his love of the sea with other purposes related to ocean exploration, sustainability, and science programmes, he is today the proud owner of ICON Yachts Group, a Dutch shipyard that stands at the forefront of sustainability in yachting through their Explorer Yachts and Conversions projects.

Topic: Harmonising Nature and Purpose – Purpose Driven Yachting and Ocean Conservation

We explore the concept of 'Responsible Yachting' and its crucial role in promoting ocean conservation while highlighting substantial contributions to scientific research, all in the pursuit of raising awareness about marine conservation.

A central theme revolves around ICON Yachts' expedition vessels, emphasising their capability to actively support scientific research and bridge the gap between luxury yachting and marine conservation.

Moreover, we will examine a case study exemplifying how ICON Yachts' expedition vessels have played a pivotal role in advancing scientific research and ocean conservation initiatives.

The presentation also looks at industry trends, showing how the yachting sector is moving towards explorer yachts and the increasing significance of experiential yachting. We will delve into ICON Yachts' network and partnerships to provide a detailed look at how collaboration impacts the yachting industry. ICON Yachts will demonstrate how they have used their partnerships to create explorer yachts that have made a real difference, with real-world examples and success stories.





ENAYETULLAH KHAN

Founder

Cosmos Foundation, WildTeam

Enayetullah Khan, is the founder of Cosmos Group and WildTeam.

Khan pursued journalism in his academic career. He is an alumnus of the Georgetown Leadership Programme in the USA and has contributed as a Guest Lecturer at the Columbia University, New York. As a media entrepreneur, he established the United News of Bangladesh (UNB), the first digitalised wire service in South Asia. Additionally, he is the Founding Editor of the 'Dhaka Courier' an independent newsweekly.

Beyond his media ventures, Khan is a passionate admirer of art and nature, a staunch environmentalist, and a dedicated advocate for ocean conservation. Khan has championed initiatives to protect the Royal Bengal Tiger and the conservation of the resources of the Bay of Bengal. Khan has authored 'Bay of Bengal: Of Bounties Untold', 'The Bangladesh Sundarbans' (on the world's largest mangrove forest and a UNESCO Heritage Site), 'Boats: A Treasure of Bangladesh' a study on the dying art of boat-making in the country.

In the global arena, Khan stands as a true global citizen, tirelessly working to foster environmental and cultural awareness among nations.

Topic: Harmonising Nature And Purpose - Institutional Conservation For The Sundarbans

The Sundarbans in Bangladesh stands as the world's largest mangrove system and a UNESCO World Heritage Site, serving not only as a critical regulator of weather patterns and a shield against cyclones but also as a lifeline for countless people. The Bengal tiger, an emblematic symbol of Bangladesh, occupies a pivotal role in the Sundarbans ecosystem. Safeguarding this majestic creature and its habitat is of utmost importance, given the looming threats of poaching, overexploitation, and human-wildlife conflict.

As a response to these pressing challenges, WildTeam has launched an array of community engagement programs, including the Village Tiger Response Team (VTRT), Forest Tiger Response Team (FTRT), BaghBandhus (friends of tigers), and TigerScouts. These initiatives are designed to mitigate human-wildlife conflicts, nurture wildlife-friendly attitudes, and empower local communities to actively participate in the conservation efforts for the Sundarbans. Preserving this invaluable natural asset its own right and as guardian of the Sundarbans not only upholds a cultural symbol but also ensures human safety and sustains livelihoods throughout Bangladesh.

Wild team in collaboration with the Bangladesh Forest Department and with support from KfW-German Cooperation, is taking a pivotal step by establishing the Sundarbans Museum and Interpretation Centre. This institution will be the first of its kind, dedicated to increasing knowledge and promoting pro-environmental attitudes regarding the Sundarbans among local communities, Bangladeshis at large, and the global community.



CESAR JUNG-HARADA

Associate Professor in Design
Singapore Institute of Technology

Mr Jung-Harada is a French-Japanese designer, environmentalist, educator, and entrepreneur, who is passionate about ocean technology, impact innovation, and education. While serving as Associate Professor of Design at the Singapore Institute of Technology where he teaches innovation, design thinking, and social entrepreneurship, and mentors ocean engineering projects, he is currently pursuing his Ph.D. in Design and Ocean Innovation at CNAM, France. Mr Jung-Harada's multi-faceted background includes roles as Director of MakerBay Ltd. (Hong Kong Makerspace), founder of ocean robotic startup Scoutbots Ltd., and Trustee of the board of HBKU (Qatar), the Wyng Foundation (Hong Kong). A regular speaker at international conferences organised by the UN, Harvard and TED, his most popular TED talk garnered over 1.8 million views and was translated into more than 30 languages.

Topic: Harmonising Nature And Purpose – Imagining Our Future Ocean

We cannot make a better world if we cannot imagine it. Kids have the most imagination, yet we don't include them in making decisions, and we don't take them seriously. Same goes for most indigenous population, even if we know they are the largest contributors to environmental conservation.

What if we could work with the youth and indigenous people to imagine and build a sustainable and prosperous relationship with the ocean?

In this talk, Prof Cesar Jung-Harada from the Singapore Institute of Technology will talk about his Open Art & Science work with young students, indigenous people, sensing ocean plastic, mapping coral reefs with robotics and AI, and his recent work in floating solar hydrogen production in Indonesia. If we want a healthy ocean, we need to include everyone, especially those who will have to bear the consequences the longest time - the youth - and those who will be hit the hardest - the indigenous.





EMCEE



PAUL FOSTER

Actor and Host

Mr. Foster, a seasoned entertainment industry professional with two decades of experience as a host, actor, and model, proudly represents Singaporean, British, and Chinese heritage. His dynamic career spans the South East Asian region, encompassing film and TV acting, travel, sports, and info-tainment hosting, as well as emceeing live events, including product/store launches, Gala Dinners, press conferences, and various media functions. Aside from his career on stage and screen, he is passionate about environmental causes, humanitarian efforts and animal welfare and leverages his social media platforms to champion change for planet and people. Finding this balance in both life and career is so important, and Mr Foster hopes his efforts in doing so can create more awareness and inspire others to do the same.



THE
OCEAN COLLECTIVE
SUMMIT 2023

MODERATORS



STEPHEN BENG

Head, ESG Strategy

Phillip Capital Management (S) Ltd

Stephen Beng spearheads sustainable investing strategy for Phillip Capital Management. He leads development and deployment of the ESG integrated investment framework for both the firm and group. He is also responsible for ESG research and risk management processes that affirm Phillip's stewardship commitments and assert positive planetary outcomes from the flow of its funds.

Prior to the appointment, Stephen championed nature conservation, environmental sustainability and social justice in business, industry, military and civil society over the last 20 years. He held leadership roles in several financial services firms with experience as relationship manager, product developer and communicator. Concurrently, he chairs the Friends of Marine Park Community - a public-private-people partnership that promotes stewardship of Singapore's natural blue spaces through multi-sectoral stakeholder contributions in research, conservation and education.



KONG MAN JING

Co-Founder

Just Keep Thinking

Don't miss your opportunity to meet MJ, co-founder of the Science and Environment channel "Just Keep Thinking," a popular social media platform that commands 500K followers worldwide. Combining education and entertainment to create captivating content, her platform has become a go-to source for insightful environmental discussions. With a background in environmental biology, MJ has previously worked in various wildlife organisations, and was also a Science teacher for three years. In line with her work in advocating for biodiversity and sustainability while making environmental education accessible to all, she will be attending the upcoming Climate Change Conference (COP28) as part of the National Council of Social Service contingent. When not on camera, MJ conducts regular physical programmes such as nature guided tours, learning journeys, workshops and talks.

ACKNOWLEDGEMENTS

Conference By



Organised By



Supported By



Venue By



Partnered By



Conference Airline Sponsor

Sponsored By





THE
OCEAN COLLECTIVE
SUMMIT 2023