

IMO R&D Forum

**From fossil to future:
Marine pollution preparedness in
the age of alternative fuels**

Singapore • 21-22 September 2026

Please join governments, research institutes,
spill response experts and industry partners
to explore and address critical
knowledge and capability gaps in
responding to spills involving
the new generation of
alternative marine fuels

Hosted by:



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SpillAsia²⁰²⁶

23-25 September 2026
SUNTEC SINGAPORE



Agenda

Day 1

Session 1

Introduction & Scene Setting

Session 2

Fate & Behaviour

Session 3

Interactive Session

Session 4

Modelling & Monitoring

Session 5

Preparedness in Practise

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Contingency Planning

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Wrap Up Session

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Pollution Response

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Response: Salvor's Perspective

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Interactive Session

Session 11

Post Spill

Session 12

International Cooperation & Collaboration

Session 13

The Way Forward and Closing Remarks

**Alternative fuels
covered**



- LNG
- LPG
- Bio/e-fuels

- Methanol
- Ammonia
- Hydrogen

DAY 1

PREPAREDNESS

Monday, 21 September

09:00 – 09:30

ARRIVAL AND REGISTRATION

09:30 – 10:30

INTRODUCTIONS & SCENE SETTING

Chair: Patricia Charlebois, Deputy Director, IMO



- **IMO INTRODUCTION & OPENING REMARKS**
Patricia Charlebois, IMO
Deputy Director, Marine Environment Division



- **MARITIME'S TRANSITION TO ALTERNATIVE FUELS**
New Wei Siang, Singapore MPA
Director, Maritime Decarbonisation Division



- **NEW FUELS, NEW RISKS, NEW SAFEGUARDS: CHINA'S PRACTICE AND PROSPECTS IN MARINE POLLUTION PREPAREDNESS FOR ALTERNATIVE FUELS**
Bai Yuming, Shandong Maritime Safety Administration of the People's Republic of China
Deputy Director-General



- **MARITIME DECARBONISATION STATE OF PLAY AND OUTLOOK TOWARDS 2050**
Dr Shahrin Osman, DNV
Associate Professor and Director, Maritime Decarbonisation and Smart Shipping Center of Excellence, Business Development Leader, DNV Maritime Advisory



- **ALTERNATIVE FUELS IN INTERNATIONAL SHIPPING: CURRENT LANDSCAPE AND FUTURE OUTLOOK**
Hiroyuki Watanabe, ClassNK
Assistant Manager, Green Transformation Center

10:30 - 11:00



COFFEE BREAK

11:00 – 12:15

FATE & BEHAVIOUR

Chair: Amy Jewell, ITOPF/IMO



- **METHYL/ETHYL ALCOHOLS AS MARITIME FUEL**
Chris Chatterton, Global Center For Green Fuels
Maritime Director



- **ARISE : AMMONIA RESPONSE IN SEA EMERGENCIES**
Christophe Logette, CEDRE
Director



- **RECENT STUDIES ON THE FATE AND BEHAVIOUR OF BIOFUELS AS MARINE POLLUTANTS**
Frédéric Hébert, European Maritime Safety Agency
Head of Unit Sustainability



- **METHANOL: A SAFE AND FUTURE PROOF MARINE FUEL**
Kai Zhao, Methanol Institute
China Chief Representative

12:15 - 13:15



LUNCH BREAK

13:15 – 14:00

INTERACTIVE SESSION

ROUND TABLE DISCUSSION

14:00 – 15:15

MODELLING & MONITORING

Chair: Dr. Chen Xinwei, Singapore Maritime Institute



- **SIMULATION-DRIVEN SAFETY TOWARDS ADOPTION OF ALTERNATIVE FUELS IN SINGAPORE**
Dr Vinh-Tan Nguyen, A*STAR Institute of High Performance Computing
Senior Principal Scientist



- **MANIFESTS GENIUS: DECISION SUPPORT SYSTEM FOR HNS RESPONSE**
Laura Cotte, CEDRE
Junior Engineer, Research Department



- **POTENTIAL ENVIRONMENTAL IMPACTS OF AMMONIA RELEASE IN THE SINGAPORE STRAIT: A DYNAMIC MODELLING STUDY**
Dr Zunya Wang & Dr Haiwei Shen, Tropical Marine Science Institute
Senior Research Fellow



- **UNDERSTANDING THE BEHAVIOUR OF AMMONIA LEAKAGE FOR SHIP-TO-SHIP BUNKERING OPERATION**
Dr Liu Ming, Nanyang Technological University
Research Director, Maritime Energy and Sustainable Development

15:15 - 15:45



COFFEE BREAK

15:45 – 16:40

PREPAREDNESS IN PRACTICE

Chair: Dr Maria Hartley, Chevron/Ipieca



- **ERP FOR ACCIDENTAL AMMONIA RELEASE: LEVERAGING OIL AND GAS FRAMEWORKS FOR HANDLING AMMONIA SPILLS**
Edmond Ow, Global Centre for Maritime Decarbonisation
Director, Projects



- **HYDROGEN AS MARINE FUEL: SAFETY LESSONS FROM THE HYMAF SINGAPORE PILOT PROJECT**
Amar Chandiram, Shell Singapore
Senior Project Engineer



- **FROM RISK TO RESILIENCE: MANAGING CONTAINER DROP INCIDENTS AND SPILL PREPAREDNESS IN LNG SIMOPS**
Dr Saunak Rai, Fuel LNG
General Manager

16:40 – 17:20

CONTINGENCY PLANNING

Chair: Dr Maria Hartley, Chevron/Ipieca



- **LNG SPILL RESPONSE PREPAREDNESS DURING BUNKERING**
Captain Suraj Sundaresan, Eastern Pacific Shipping
General Manager Operations



- **HANDLING BIOFUEL SPILLS : AN UNCHARTED TERRITORY**
Anubhav Garg, NYK Shipmanagement Pte Ltd
Managing Director and Chief Operating Officer



- **METHANOL BUNKERING RISK ASSESSMENT REQUIREMENTS FROM A REGULATORY PERSPECTIVE**
Calvin Lee, MPA
Deputy Director, Marine Services Division

17:20 – 17:30

WRAP UP SESSION

17:30 - 19:00

EVENING RECEPTION - Hosted by Singapore MPA

DAY 2 RESPONSE

Tuesday, 22 September

08:45 – 09:15

ARRIVAL AND REGISTRATION

09:15 – 10:30

POLLUTION RESPONSE

Chair: Shahreena Shahnavas, OSRL



- **RESPONDING TO INCIDENTS INVOLVING ALTERNATIVE FUELS ONBOARD – THE CASES AND ANALYSIS**
Wei Ruan, Maritime Technology Cooperation Centre for Asia
Head



- **ENHANCING MARITIME HNS AND ALTERNATIVE FUEL RESPONSE: SOUTH KOREA'S STRATEGY**
Dongpyo Hong, Korean Coast Guard
Assistant Director of the Marine Pollution Response Planning Division



- **STUDY OF EFFECTIVE AMMONIA LEAK COUNTERMEASURES: AMMONIA CHARACTERISTICS AND EVALUATION OF MITIGATION METHODS**
Dr Seiichi Hamada & Hideomi Kakimoto, Maritime Disaster Prevention Centre
Principal Researcher & Manager of the International Division



- **FROM THEORY TO TACTICS: OPERATIONALISING EMERGENCY RESPONSE FOR ALTERNATIVE MARINE FUELS**
Andrew Lopez, Ambipar
HAZMAT HNS CBRN | Advisor Trainer Responder

10:30 - 11:00



COFFEE BREAK

11:00 - 11:45

RESPONSE - THE SALVOR'S PERSPECTIVE

Chair: Lauren Fearenga, ITOPF



- **RISKS, CHALLENGES AND OPPORTUNITIES – RESPONDING TO ALTERNATIVE MARINE FUEL INCIDENTS**
Richard Robertson, SMIT salvage
Operations Manager



- **EMERGENCY RESPONSE TO ALTERNATIVE-FUELLED VESSELS: EVOLVING CHALLENGES FOR SALVORS AND RESPONDERS**
Ros Blazejczyk, Solis Marine
CEO



- **FROM LNG TO AMMONIA: TRANSLATING EMERGENCY RESPONSE EXPERIENCE INTO AMMONIA READINESS**
Carl Henrik Frankman, BlueTack
Salvage Master

11:45 - 12:15

PANEL DISCUSSION

12:15 - 13:15



LUNCH BREAK

13:15 – 14:15

INTERACTIVE SESSION

ROUND TABLE DISCUSSION

14:15 – 15:15

POST SPILL

Chair: Gillian Grant, IOPC Funds



- **NEW FUELS, OLD FRAMEWORKS: THE REGULATORY GAP IN POST-SPILL ENVIRONMENTAL ASSESSMENTS**
Dr Angela Pinzón, ITOPF
Senior Technical Adviser



- **P&I COVER FOR ALTERNATIVE FUEL LIABILITIES**
Daisy Roche, IG P&I
Senior Secretariat Executive and IMO and IOPC Funds Accredited Representative for the International Group of P&I Clubs



- **BRIDGING THE GAP: ALTERNATIVE FUELS AND THE HNS CONVENTION**
Chiara Della Mea, IMO
Head, Pollution Preparedness & Response Section



- **POST INCIDENT ASSESSMENT OF FISHERIES**
James Clark, MRAG Ltd
Technical Director

15:15 - 15:45



COFFEE BREAK

15:45 – 16:30

INTERNATIONAL COOPERATION & COLLABORATION

Chair: Chiara Della Mea, IMO

PANEL SESSION



- **Tawirat Bates, IMO/Ipieca Global Initiative for Southeast Asia**
GI SEA Project Manager



- **Ivan Sammut, REMPEC**
Head of Office



- **Rehab Abou El Fadl, Maritime Transport and Logistics Sector, Egypt**
Senior Researcher

16:30 – 17:00

THE WAY FORWARD AND CLOSING REMARKS



- **IDENTIFYING THE GAPS AND LOOKING AHEAD**
Patricia Charlebois, IMO
Deputy Director, Marine Environment Division

SPEAKERS



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Patricia Charlebois, Deputy Director MED
IMO



With more than 26 years within the UN system and ten years with the Canadian Government, Patricia's experience spans maritime transport, environmental emergency management, disaster response and ocean policy. At the IMO, she oversees marine pollution preparedness and response, technical cooperation matters, and ocean policy. She holds a BSc in Chemistry from the University of Ottawa, an MSc in Environmental Management from Royal Roads University, and a Diploma in Maritime Trade from Lloyd's Maritime Academy.

New Wei Siang, Director, Maritime Decarbonisation Division
Singapore MPA



Wei Siang is the Director for Decarbonisation and Net-Zero Pathways in the Maritime Decarbonisation Division at the Maritime and Port Authority of Singapore (MPA). He oversees MPA's efforts to drive the decarbonisation of international shipping, through the adoption of low- and zero emission fuels and energy efficiency measures, and the development of international decarbonisation partnerships, such as Green and Digital Shipping Corridors. Prior to this, Wei Siang was with Singapore's Ministry of Trade and Industry, where he oversaw the development of the energy sector in Singapore. Wei Siang has also worked at Singapore's Ministry of Manpower and Ministry of Education.

Bai Yuming, Deputy Director-General
Shandong Maritime Safety Administration of the People's Republic of China



Bai Yuming, Deputy Director-General, Shandong Maritime Safety Administration. Former Chief of the Division of Dangerous Goods Management and Pollution Prevention, Maritime Safety Administration of the People's Republic of China.

He has participated in numerous sessions of the International Maritime Organization (IMO) bodies, including the Marine Environment Protection Committee (MEPC), the Sub-Committee on Pollution Prevention and Response (PPR), and the Sub-Committee on Carriage of Cargoes and Containers (CCC).

He has taken part in the formulation and revision of Chinese laws and regulations such as the Ecological and Environmental Code of the People's Republic of China, the Marine Environmental Protection Law of the People's Republic of China, the Maritime Traffic Safety Law of the People's Republic of China, and the Provisions for the Safety Supervision and Administration of the Carriage of Dangerous Goods by Vessels. He has also been engaged in emergency disposal of multiple ship-sourced pollution incidents.

Dr Shahrin Osman, Deputy Director-General
DNV



Dr. Shahrin Osman is a seasoned maritime professional with over 35 years of industry experience, including 18 years in consulting and research. He also spent more than 15 years in senior leadership roles at a major European container shipping group. His expertise spans procurement, performance management, digital transformation, and change management. Since joining DNV in 2008, he has led cross-disciplinary consulting teams across Asia and the Middle East, delivering strategic projects for governments, port authorities, and maritime companies, with a focus on benchmarking, decarbonisation, and digitalisation. Recognised for his thought leadership on technology and industry transformation, he is a frequent speaker in the Asia-Pacific region and co-lead author of key DNV-Menon reports. He also serves on multiple industry and academic boards. In 2024, he was appointed Adjunct Associate Professor at SIT. Dr. Shahrin holds a PhD in 'Industry Cluster Strategy and Innovation Ecosystem' and has completed executive programs at IMD and UC Berkeley.

Hiroyuki Watanabe, Assistant Manager, Green Transformation Center
ClassNK



Hiroyuki Watanabe joined ClassNK in 2011 and has been leading research and analysis on alternative fuel trends within the global maritime sector since 2020. Mr. Watanabe has authored key publications, including *Pathway to Zero-Emission in International Shipping - Understanding the 2023 IMO GHG Strategy* and *ClassNK Alternative Fuels Insight*, providing the industry with comprehensive analyses of the evolving fuel landscape.

His current work focuses on quantifying the economic cost impact of GHG reduction regulations on vessels, contributing to the development of robust decarbonization strategies. Through his expertise, he supports a wide range of stakeholders across the global maritime industry in navigating the complex transition toward a sustainable maritime future.

Dr. Amy Jewell, Technical Adviser
IMO & ITOPF



Amy joined ITOPF in 2022 and has since attended on-site during many international marine spill incidents. At ITOPF, she is part of the ESG working group and the HNS working group. In 2026, Amy is undertaking a secondment in IMO's Marine Environmental Division where her primary responsibility is the project management of this multi-regional R&D Forum focussing on response to alternative fuels. Amy holds an MSci in Oceanography with French, and a PhD in Palaeoclimate and Geochemistry.

Chris Chatterton, Maritime Director
Global Centre for Green Fuels and the Maritime
Ethanol & Methanol Alliance



Mr. Christopher Chatterton is a seasoned international executive with over 25 years of experience spanning energy, shipping, transportation, renewables, and chemicals across Asia, Europe, and the Americas. Since joining the Global Centre for Green Fuels (GCGF) in 2024, he has brought deep domain knowledge and commercial leadership to the Centre's mission of accelerating the transition to sustainable marine fuels.

At GCGF, Mr. Chatterton draws upon his extensive track record, including his tenure as Chief Operating Officer of the Methanol Institute, where he led global market development for methanol as a marine fuel and engaged closely with regulatory bodies such as the IMO, ISO, and national authorities to shape alternative fuel policy. Earlier, he served as Director for Group DF International, a vertically integrated energy and chemicals conglomerate, managing assets on behalf of a European family office with an annual turnover exceeding USD 5bln.

Mr. Chatterton has led successful capital raises and exits across the energy and agri tech sectors, including three European IPOs. He remains active in the startup and innovation ecosystem as a founder, mentor, and board member, with a focus on sustainability, Scope 3 emissions management, and green infrastructure. Fluent in English, Russian, and Ukrainian, Mr. Chatterton has lived and worked extensively across Asia, including 12 years in Singapore, bringing a nuanced understanding of global markets. He holds a Global Executive MBA from HEC Paris and is a Certified Advisory Board Chairman.

Christophe Logette, Director
Cedre



Christophe Logette is an experienced leader with 30 years maritime experience. He has been working for the French Navy in various tasks around the world and had the opportunity to be committed in most of the seven seas. During this period he has been directly involved in coast guard and crises management missions in the Indian Ocean, in the Caribbean and in the Atlantic Ocean. Director of the Centre for Documentation, Research and Experimentation on accidental water pollution since the beginning of 2022, he endeavours to provide the best expertise possible to public leaders and the industry, and to give an independent and scientifically based analyse.

Frederic Hebert, Head of Unit Sustainability
European Maritime Safety Agency EMSA



Frederic started his carrier in the French Navy where, after serving onboard two ships, he was posted to the Prefecture Maritime de la Mediterranee, Department for State Action at Sea. He then joined the Legal Department of the Ministry of Finances as Head of the Unit for international, Environmental and Maritime law where he oversaw the court cases related to marine pollution (ERIKA, IEVOLI SUN, PRESTIGE inter alia).

In 2006, he was appointed by the IMO Secretary General Director of the Regional Marine Pollution Emergency Centre for the Mediterranean Sea (REMPEC), a position he left in 2014. He joined the European Maritime Safety Agency in 2016 where he is currently Head of the Unit Sustainability covering prevention of pollution by ships, including decarbonization and the pollution response services of the Agency.

Kai ZHAO, China Chief Representative
Methanol Institute



Mr. Zhao Kai serves at the Methanol Institute (MI)'s China Chief Representative, based in Beijing. He joined MI in 2015, and in this role, Mr. Zhao is responsible for supporting and advancing the Association's public policy activities in China. He liaises with MI members, government and affiliated Chinese trade associations, media on areas affecting the methanol industry, including safe use and handling of methanol and derivative products in China. He co-authored a number of articles on methanol fueled vehicles in 2021, he co-authored *A Brief Review Methanol Fueled Vehicles in China and Implementation Policy* in a book entitled *Methanol: A Sustainable Transport Fuel for SI Engines* published by Springer. He is member of Petroleum Circulation Industry's Standardization Committee under MOFCOM and also serves as expert in a number of China national and sub-national standards, covering methanol vehicle, methanol fuel for road and marine applications, methanol fuel fueling stations and alcohol based fuel and its infrastructures.

Dr. Chen Xinwei, Deputy Executive Director
Singapore Maritime Institute



Dr Chen Xinwei is a key leader in Singapore's drive towards a sustainable and technologically advanced maritime sector, currently serving as Deputy Executive Director of Singapore Maritime Institute (SMI). In this role, he spearheads research and development initiatives, focusing on fostering innovation in digitalization and maritime sustainability to meet the industry's evolving needs.

Prior to his role at SMI, Dr Chen served at STRIDES (SMRT's commercial arm), leading the development of electric-mobility-as-a-service solutions. His career also spans key positions in national research programs, where he shaped energy and sustainability strategies at the National Research Foundation (NRF) and spearheaded research teams at A*STAR.

Dr Chen holds a PhD in Chemical Engineering from the National University of Singapore and completed postdoctoral studies at the Massachusetts Institute of Technology (MIT). This combination of rigorous academic foundation and practical leadership equips him to drive progress in maritime technology and sustainability.

Vinh-Tan Nguyen, Senior Principal Scientist
A*STAR Institute of High Performance Computing



Vinh-Tan Nguyen is the Portfolio Lead in Energy Transition at the Institute of High Performance Computing (IHPC), A*STAR, where he leads R&D initiatives in advanced modelling and simulation for low-carbon energy solutions. His work bridges computational science with real-world applications to support decarbonisation and sustainability goals. His recent efforts focus on physics-based decision support for environmental monitoring, consequence modelling and risk assessment of alternative fuels, and managing extreme weather impacts on port operations

Laura Cotte, Junior Engineer, Research Department

Cedre



Laura Cotte, PhD, is a marine chemist specializing in metal chemistry in deep-sea hydrothermal vents. Her PhD research at the Mid-Atlantic Ridge enhanced her expertise in electrochemistry, analytical chemistry, and trace metal analysis. She gained significant field experience during two scientific expeditions in the Atlantic Ocean and a five-month research internship at the Ruder Bošković Institute in Croatia.

Following her PhD, Laura transitioned into European project management, working at Pôle Mer Bretagne Atlantique and Shom until 2021. She then joined Cedre's Research Department as a chemical engineer, managing the technical and administrative aspects of the MANIFESTS EU project. Her work focused on lab and pilot-scale experiments to understand the behaviour of HNS when accidentally released at sea.

Since securing a permanent position in 2022, Laura has expanded her role to include Cedre's cross-disciplinary activities, research proposal development, scientific project management, and the characterization of emerging pollutants in the environment.

Shen Haiwei, Senior Research Fellow

Tropical Marine Science Institute, National University of Singapore



Dr. Shen is a Senior Research Fellow with 17 years of experience in marine environmental science, specializing in numerical modelling and EIA of pollutant transport and fate in aquatic environments. She holds a PhD in Oceanography and has extensive expertise in coastal hydrodynamics, water quality modelling, and marine environmental risk & exposure assessment. Her work spans oil/chemical spill contingency planning and emergency response, coastal infrastructure development, marine pollution management, radionuclide transport and fate modelling, and environmental monitoring. She is experienced in the application of advanced modelling systems, including MIKE, Delft3D, Oilmap, Chemmap, and SIMAP, as well as scientific computing and environmental data analysis. Her current research interests include emerging marine fuels, radionuclide environmental exposure assessment, integrated decision-support frameworks, tropical coastal ecosystem impacts, and sustainable maritime environmental management.

Zunya Wang, Research Fellow

Tropical Marine Science Institute, National University of Singapore



Dr. WANG has obtained her PhD in Meteorology in University of Chinese Academy of Sciences (China).

Over the years, she has worked in the areas of climate change, weather and climate extremes, coastal hydrodynamics, and environmental impact assessment. In recent years, her research has focused on the potential environmental impacts of alternative fuel applications.

Liu Ming, Research Director

Maritime Energy and Sustainable Development, NTU



Dr. LIU Ming is currently the Research Director at the Maritime Energy & Sustainable Development Centre of Excellence (MESD) at Nanyang Technological University, Singapore. His work focuses on the strategic planning, management, and operations of the Centre's three core research pillars that covers Maritime Alternative Energy Management, Maritime Pollution and Emissions Control and Sustainable Maritime Operations. Dr. Liu has successfully led and contributed to multiple government- and industry-funded projects involving biofuels, hydrogen, ammonia, and alcohol-based fuels. His work demonstrates strong leadership and impact in advancing global maritime sustainability and delivering innovative solutions for the maritime industry.

Maria Hartley, Emergency Management

Chevron & Ipieca



Dr. Maria Hartley is the global technical lead for Chevron's Emergency Management organization and has been with the company for 17 years. Dr. Hartley also manages the Chevron's Emergency Response Teams (13 teams, 400+ responders), leads the Chevron's Environmental Response Team, and is the chair of the Ipieca Marine Spill Group, advancing the energy industry in emergency preparedness and response, in partnership with the UN (IMO). After receiving her doctorate degree in ecology from Rice University, she has been teaching Environmental Management as an Adjunct Assistant Professor for the last 15 years, and serves on the Rice Advisory Board of the School of Natural Sciences. She is also a board member for International Bird Rescue.

Edmond OW, Director

Projects Global Centre for Maritime Decarbonisation (GCMD)



Edmond is a Director in the Projects team, and is the lead for GCMD's enabling ammonia as a marine fuel initiative.

Prior to joining GCMD, Edmond was a Technical Project Manager for Spring Valley Shipping Management. In this role, he oversaw comprehensive vessel management, including dry-docking budget planning and the execution of ad hoc fleet-improvement and emergency-docking projects. He also ensured timely submission of documentation to ensure critical regulatory compliance.

He was also formerly Senior Classification Surveyor/ Auditor at Lloyd's Register, overseeing novel dual-fuel newbuilding and offshore projects, and surveying existing vessels in service and at shipyards. He subsequently advanced into Account Management, where he developed strategic projects and resolved Port State Control (PSC)/ Flag State Control (FSC) issues for shipowners and shipyards.

Edmond holds a Bachelor's degree in Naval Architecture and Marine Engineering from the University of Strathclyde and a Master's degree in Project Management from Nanyang Technology University.

Amar Chandiram, Senior Project Engineer
Shell



Amar Chandiram is a Senior Project Engineer with Shell Eastern Trading (Pte) Ltd, Singapore, bringing extensive experience in offshore and marine project delivery. He plays a key role in executing complex developments such as the Crux Walk-to-Work (W2W) vessel, working closely with shipyards, contractors, and classification societies to deliver safe, efficient, and high-quality outcomes.

He holds a Master of Science (MSc) in Maritime Studies, a Certificate of Competency (CoC) as Chief Engineer, and is a Chartered Marine Engineer (CMarEng) with the Institute of Marine Engineering, Science and Technology (IMarEST). Amar combines strong seagoing and technical expertise with deep FPSO experience across Operations and Maintenance, Engineering, and Construction. His background includes in-depth knowledge of vessel systems, offshore asset integrity, and lifecycle management.

Amar has also contributed to the Hydrogen as Marine Fuel (HyMaF-Sg) project, supporting energy transition initiatives. He is passionate about safety leadership, engineering excellence, and delivering projects aligned with industry's best practices.

Saunak Rai, General Manager
FueLNG

FUELNG



Dr. Saunak Rai heads FueLNG, the Shell-Seatrium joint venture driving LNG bunkering in Singapore. Under his leadership, FueLNG delivered Asia's first SIMOPS LNG bunkering (CMA CGM Scandola) and a world-first LNG bunkering of an LNG-fueled Newcastlemax bulk carrier (Mount Tourmaline), setting new benchmarks for safe and scalable alternative fuel operations. He led the company to win the World LNG Award 2021 in Rome, for Outstanding Contribution to the LNG Industry. Dr. Rai also serves as Chairman of the National Technical Committee for Bunkering (Cryogenic and Gaseous Fuels), guiding the development of standards for LNG, ammonia, biomethane, and hydrogen, aligned with IMO decarbonization goals. He is Chairman of Institute of Chartered Shipbrokers, ASEAN and a Board Director of International Bunker Industry Association's Asia Board.

Capt. Suraj Sundaresan, General Manager Operations
Eastern Pacific Shipping



Suraj has been leading a team of committed individuals and managing the Operational functions at EPS since January 2021. He was sailing with Eastern Pacific Shipping prior stepping ashore in 2010.

He has been involved with the development of the LNG bunkering function since its inception. Today, EPS operates 63 LNG dual-fuel vessels, with a further 11 scheduled for delivery by the end of the year.

Since November 2020, EPS has successfully completed 676 LNG bunkering operations to date without a major incident, reflecting the company's strong commitment to safety and operational excellence. Suraj also oversees a dedicated global LNG bunkering team of eight specialists who assess, support, and attend bunkering operations worldwide. Singapore (177 operations) and China (168 operations) remain EPS's busiest LNG bunkering locations, with bunkering completed across 39 ports in 17 countries.

Anubhav Garg, Managing Director and Chief Operating Officer
NYK Shipmanagement Pte Ltd



A seasoned maritime professional with over three decades of experience in the Maritime industry. A Marine Engineer by training, he currently serves as the Managing Director & Chief Operating Officer of NYK Shipmanagement Pte Ltd, where he leads large-scale fleet operations and drives strategic initiatives across safety, sustainability, and digital transformation.

He is deeply committed to advancing decarbonisation in shipping, actively working on alternative fuels such as biofuels and contributing to ESG and sustainability reporting. Anubhav is also passionate about developing future maritime talent, fostering a strong safety culture, and mentoring young professionals. He frequently represents the industry at global forums, sharing insights on operational excellence and the transition toward a more sustainable maritime future.

Calvin Lee, Deputy Director Marine Services Division
MPA



Calvin is the Deputy Director overseeing licencing and compliance enforcement of the bunkering industry in Singapore. He plays a critical role in maintaining Singapore's reputation for transparent and reliable bunkering operations, including the licencing of methanol suppliers in Singapore to anchor methanol's role in the multi-fuel future of shipping. Prior to this role, Calvin formulates technical policies on safety and pollution prevention related matters associated with the various international conventions and works in collaboration with the Recognised Organisations to implement the technical standards on Singapore ships.

Shahreena Shahnavas, Principal Preparedness Solutions Advisor
OSRL



Shahreena Shahnavas is a crisis and incident management professional specialising in oil spill preparedness and response. Based in Singapore, she currently leads strategic client and member engagements across key countries in the Asia-Pacific region.

Shahreena has extensive experience developing and executing preparedness projects for both conventional oil and alternative fuels. Her portfolio includes the delivery of contingency plans, preparedness workshops, Incident and Crisis Management trainings and exercises across Asia Pacific and African regions. Throughout her career, she has collaborated closely with government agencies, national and international oil companies. She draws on deep field expertise gained as a Spill Responder with OSRL, as well as strong technical foundation as a former Regional Human Health Risk Assessor (HHRA) managing environmental site assessments and toxicological reviews across Asia Pacific and Africa.

Wei Ruan, Head
Maritime Technical Co-operation Center for Asia



Graduated from Navigation Department of Shanghai Maritime University and World Maritime University (Sweden), RUAN wei has been dedicated himself for many years in maritime education and training, maritime safety and pollution prevention conventions, maritime safety management, maritime policies and management. He was continuously nominated as a delegate of Chinese Maritime Safety Administration for IMO conferences and meetings.

He served for the Shanghai Maritime University (SMU), China as the Dean of Continuing Education College and the Director of Shanghai Seafarer Training Center since 2005. From September 2015, he was appointed to be the Dean of International Education College and in the meantime from 2021 he serves as the Director of International Student Office of SMU. From 2017, he became the director of Maritime Technical Co-operation Center for Asia established for International Maritime Organization.

He accomplished a series of maritime-related researches, and published a range of essays.

His work in Maritime Technical Co-operation Center for Asia includes professional study and experience expanded further into IMO co-operations for GHG emission controlling, IMO conventions and standards for air pollution, Maritime GHG technology researches, international seminars and workshops for GHG controlling, etc.

Dongpyo Hong, Assistant Director of the Marine Pollution Response Planning Division
Korean Coast Guard



Dongpyo Hong oversees international cooperation and transboundary marine pollution response at the Korea Coast Guard (KCG). He is a certified merchant ship master with an M.S. in Maritime Safety System Engineering and completed a Cornell Humphrey Fellowship, specializing in oil/HNS incident response and maritime safety engineering.

Mr. Hong serves as Assistant to the Chair for the NPCGF Emergency Response Working Group, manages NOWPAP MERRAC mechanisms, and represents Korea at the IMO PPR Sub-Committee. He also leads key bilateral response frameworks, including joint preparedness operations with U.S. Forces Korea (USFK).

Seiichi Hamada, Principal Researcher
MDPC



Dr. Seiichi Hamada is a principal researcher in the Research and Survey Office at the Maritime Disaster Prevention Center (MDPC), where he has worked since 2011. He received his doctoral degree from Niigata University in 2008. Before joining MDPC, he spent 15 years as a research staff member at Geological Survey of Hokkaido. His work focuses on marine disaster prevention and response, including Environmental Sensitivity Index (ESI) mapping and surface current observations in Japan and overseas. Recently, he has led and contributed to demonstration tests addressing emerging maritime safety risks, including liquefied hydrogen fires, lithium-ion battery fires, and liquefied ammonia leak behavior.

Hideomi Kakimoto, Manager of the International Division
MDPC



Mr. Hideomi Kakimoto is Manager of the International Division at the Maritime Disaster Prevention Center (MDPC). He joined MDPC in 2012 after serving for 10 years as an environmental engineer at Commander Fleet Activities Yokosuka, U.S. Navy. He supports international training programs on oil and Hazardous and Noxious Substances (HNS) spill response for overseas participants at MDPC's Training Center in Yokosuka. Following the 2020 oil spill incident in Mauritius, he was dispatched as a Japan International Cooperation Agency (JICA) expert and later led a JICA project from 2022 to 2025 to strengthen Mauritius' oil spill response capacity. Since April 2026, he has also served in a dual role as International Division Manager and staff member of the Research and Study Office.

Andrew Lopez, HAZMAT HNS CBRN | Advisor Trainer Responder
Ambipar



Andrew "Andy" Lopez is a HAZMAT and CBRN specialist with over 11 years' service as a Royal Engineer in the British Army, supporting UK CBRN contingency operations. As a Team Leader within the UK's SIBCRA capability, he led multinational teams conducting the sampling and identification of chemical, biological, and radiological warfare agents in live and simulated environments.

Andy later served as Lead Instructor at the Royal School of Military Engineering, where he planned and delivered leadership and specialist engineering training, including reconnaissance, demolitions, watersmanship, and bridging operations. He continues to serve as a Reservist with the Royal Welsh.

In the industrial and emergency response sector, Andy advises COMAH sites, ports, and terminals on hazardous materials preparedness and response. He delivers specialist training in HAZMAT, HNS, confined space rescue, and environmental monitoring, and has recently supported inland and maritime emergency operations including the MV Solong and Stena Immaculate.

Lauren Fearenga, Senior Technical Adviser
ITOPF



A Senior Technical Adviser at ITOPF, Lauren Fearenga provides specialist technical advice to support effective response to ship source marine pollution incidents worldwide. She is a Chartered Biologist and Member of the Royal Society of Biology (RSB), as well as an Associate Member of the Chartered Institute of Ecology and Environmental Management (CIEEM). In 2026, Lauren was awarded the WISTA-ICS Scholarship and is undertaking a Diploma in Shipping Law. Lauren has attended marine pollution incidents in Europe, Africa, Middle East, Asia and the Pacific.

Prior to joining ITOPF in 2019, Lauren worked as a consultant ecologist, assessing the impacts of major infrastructure projects on protected species and habitats across the UK. She holds an MSc by Research in Biology from the University of Bristol and worked collaboratively with the Australian Institute of Marine Science (AIMS) on research investigating the effects of anthropogenic noise on coral reef fish communities within Marine Protected Areas in Australia.

Richard Robertson, Operations Manager
SMIT Salvage



With a background in the maritime sector, Richard's career spans a diverse range of roles, including Military Service in the South African Navy, Commercial Diving, Sea Time, Safety Management, Operational Salvage, Project Management, and Operations Manager positions. Richard joined SMIT salvage in 2009 as a Salvage Master, and has been the operation manager of the SMIT MARINE South Africa since 2019. Richard has recently moved to Singapore to act as Operations Manager for the Asia Pacific Region.

Ros Blazejczyk, CEO
Solis Marine



Ros is co-founder and CEO of Solis Marine. As a naval architect and chartered engineer, she specialises in salvage, wreck removal and shipping incident investigations, providing expert advice on complex and politically sensitive operations worldwide.

As a Member of the Lloyd's Panel of Special Casualty Representatives (SCR), she attends major salvage operations on behalf of insurers and vessel interests. Her casualty management work spans salvage specifications, bid evaluation and on-site operational oversight across a wide range of vessel types. Separately, she has given expert witness evidence in court and arbitration proceedings in Singapore, Malaysia and the UK.

In 2024, she coordinated the on-water and shoreline response to the 'MARINE HONOUR' oil spill in Singapore, acting for the vessel's insurers and subsequently the Government of Singapore.

Ros also project-managed Solis Marine's conversion of the PSV 'GREEN PIONEER' to ammonia fuel - the world's first dual-fuelled ammonia-powered vessel.

Carl Henrik Frankman, Salvage Master
BlueTack



Carl Henrik is a Master Mariner by trade, starting on multipurpose and dry-cargo vessels and transitioning to LPG and NH3 gas carriers in the latter part of his sea-going career. Having worked in the marine specialists and consultancy industry out of Scandinavia, he joined BlueTack in 2021 as Salvage Master, attending casualties throughout the world. With his experience working on vessels trading predominantly ammonia, Carl Henrik has from the start been involved in BlueTack's decarbonization efforts, part-taking in various industry and research lead projects.

Gillian Grant, Head HNS Department
IOPC Funds



Gillian Grant joined the IOPC Funds in December 2024. She currently serves as Head of the HNS Department. In this capacity, she leads initiatives to facilitate the entry into force of the 2010 HNS Convention and the establishment of the HNS Fund.

A qualified barrister and solicitor with advanced degrees in History, Law, and Public Administration, Ms. Grant joined the Canadian Department of Justice in 2002 and held increasingly senior positions, latterly serving as General Counsel to Transport Canada specializing in maritime law.

From 2017 – 2024, Ms Grant acted as Canada's Alternate Representative to the International Maritime Organization (IMO) and as Transportation Counsellor to Canada's Embassy in Washington, DC. During that period, she served as Chair of the 1992 Fund Executive Committee from 2019 –2021, Vice Chair of the IMO Legal Committee from 2017-2021 and Chair of the IMO Legal Committee from 2022-2024.

Dr Angela Pinzón, Senior Technical Adviser
ITOPF



Angela Pinzón is a Senior Technical Advisor at ITOPF, specialising in marine pollution response, preparedness, and environmental impact assessment. Her work covers oil, hazardous and noxious substances (HNS), and emerging issues such as alternative fuels.

She holds a BSc in Microbiology, an MSc in Chemistry, and a PhD in Environmental Chemistry, applying this scientific background to understanding the behaviour and impacts of pollutants in the marine environment. Angela has supported incident response and preparedness activities worldwide, working with governments, insurers, intergovernmental organisations, regional bodies and other stakeholders.

She leads ITOPF's Waste Management Working Group, is a member of the HNS Working Group, and has delivered training workshops globally. She has also contributed to capacity-building initiatives through a secondment to the International Maritime Organisation (IMO).

Having worked across regions, initially from ITOPF's London office and more recently from Singapore, she brings a practical and international perspective to spill response. She is particularly interested in how intercultural communication supports effective leadership and incident management.

Daisy Roche, Senior Secretariat, Executive and IMO and IOPC Funds Accredited Representative for the International Group of P&I Clubs
IG P&I



Daisy is a Senior Secretariat Executive at the International Group of P&I Clubs (IG), which she joined in August 2023. Her main role is to assist the Group's Pollution, Claims Co-operation and Nuclear Committees, as well as the Alternative Fuels Working Group. Daisy is the IG's Accredited Representative at the IMO and IOPC Funds. Prior to this role, Daisy was Head of Legal at The Shipowners' Club where she worked for nearly a decade in both the Claims and Legal Departments. Daisy is an English law qualified solicitor, having trained and worked at HFW before joining the P&I industry.

Chiara Della Mea, Head, Pollution Preparedness & Response Section
IMO



Chiara Della Mea is the Head of the Pollution Preparedness and Response Section at the International Maritime Organization (IMO), where she leads the section's work on strengthening spill prevention and response capabilities and supporting technical collaboration at the international level. She is responsible for advancing the implementation of the OPRC, OPRC-HNS, and related conventions, and coordinating regional preparedness and response efforts across member states.

Before joining the IMO, Chiara worked as a Senior Claims Manager at the IOPC Funds, gaining extensive expertise in the international compensation framework for oil pollution damage. Earlier in her career, she contributed to the secretariat for Marine Environment Protection at the Italian Ministry of Environment, building a solid foundation in domestic and intergovernmental environmental policy.

James Clark, Technical Director
MRAG Ltd



Mr James Moir Clark is a Director at MRAG with over 25 years' experience including impact studies related to marine infrastructure projects, including oil pipelines and liquid natural gas terminals. His expertise also extends to conducting loss assessments on fish and fisheries in the aftermath of oil spills and maritime accidents, such as the M/V X-Press Pearl incident in Sri Lanka. In these roles, he has been responsible for conducting comprehensive surveys and collecting data on both natural resources and the social dimensions of artisanal and commercial fisheries. His work in this capacity has spanned various countries, including Tanzania, Brazil, Russia, Bulgaria, Turkey, Indonesia and the Philippines.

He has previously been on the UK and EU delegations for the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and is currently on the UK delegation to the Indian Ocean Tuna Commission (IOTC).

Tawirat Bates, GI SEA Project Manager
IMO/Ipieca Global Initiative for Southeast Asia (GI SEA)



Tawirat Bates (Danny) has worked in the spill preparedness and response sector since 2018, developing extensive experience in response operations, emergency logistics, and stakeholder coordination across the maritime and energy sectors. He currently serves as Project Manager for the Global Initiative for Southeast Asia (GI SEA), a key regional programme within the Global Initiative, a long-standing partnership between the International Maritime Organization (IMO) and Ipieca, supported by the oil and gas industry. In his role, Danny leads regional efforts to strengthen marine oil and hazardous and noxious substances (HNS) spill preparedness and response capabilities throughout Southeast Asia. He works closely with government agencies, industry operators, and technical partners to enhance collaboration, build national and regional capacity, and promote the adoption of international conventions and best practices.

Ivan Sammut, Head of Office
Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea



Ivan Sammut over 25 years experience in the international maritime industry and graduated with a Master of Science degree in International Maritime Studies from the University of Southampton, United Kingdom. He was the Registrar General of Shipping and Seamen (until November 2023), responsible for the Merchant Shipping Directorate within Transport Malta – the Malta Ship and Yacht Register for 14 years. He was also Malta's Permanent Representative of Malta to IMO, Malta's Focal Point for Pollution Prevention at REMPEC, Malta's representative on the Administrative Board of the European Maritime Safety Agency (EMSA) and the European Sustainable Shipping Forum (ESSF). Mr Sammut also acted as Malta's head of delegation at a number of meetings of the International Maritime Organisation (IMO), REMPEC and the International Labour Organisation (ILO). In December 2023, Mr Sammut was appointed as Head of REMPEC.

Rehab Abou ElFadl, Senior Researcher
Maritime Transport and Logistics Sector, Egypt



Rehab AbouElFadl is a Senior Researcher and Translator in the International Conventions & Treaties Department at Egyptian Maritime Transport and Logistics Sector. With nearly 30 years of experience in international maritime affairs, she specializes in IMO conventions, maritime environmental policy, and climate-related issues.

She serves as Egypt's National Coordinator for the IMO's GREENVOYAGE2050 Programme, and the related HASKONING's Alternative Fuel Roadmap of Egypt; facilitating national coordination to support the decarbonization of maritime transport and the implementation of the IMO's 2023 GHG Strategy. Her work includes coordinating national positions for IMO meetings, assessing international maritime instruments, supporting compliance with IMO requirements, and promoting capacity-building initiatives on maritime sustainability.

Her professional interests include maritime decarbonization, alternative marine fuels, greenhouse gas reduction measures, and international cooperation to advance a safe, sustainable, and resilient maritime sector.

Ayumi Therrien, Senior Technical Adviser
TrioX Environmental Emergencies



Ayumi Therrien is a Senior Technical Adviser with TRIOX Environmental Emergencies based in Montréal, Québec, with over 10 years of experience in spill preparedness, response, recovery, and environmental emergency management. Prior to joining TRIOX, she served as a Senior Environmental Emergencies Officer with Environment and Climate Change Canada and as a Technical Adviser with ITOPF. Throughout her career, she has supported numerous pollution incidents internationally, providing scientific and technical advice within a range of incident management and command structures.

Her expertise includes environmental recovery, coastal sciences, the fate and behaviour of pollutants, contingency planning, risk analysis, stakeholder engagement, and regulatory oversight. Ayumi has developed and delivered training, exercises, and workshops for government, industry, Indigenous partners, and international organizations worldwide. She holds a BSc in Physical Geography and an MSc in Environmental Sciences and Management.