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Agenda 2024

DAY 1: WEDNESDAY, 17 APRIL, 2024

0830 - 0930	REGISTRATION AND MORNING REFRESHMENTS
0930 - 0940	OPENING ADDRESS
0940 - 1005	INTERNATIONAL LEGAL FRAMEWORK IN DEEP SEA MINING AND THE PRECAUTIONARY PRINCIPLE <ul style="list-style-type: none"> Exploring the unique aspects of the international legal framework for deep-sea mining The intersection of UK and EU obligations with the precautionary principle in mining decisions Approaches to liability and dispute resolution in marine environmental harm <p>Julie Vaughan Reed Smith</p> 
1005 - 1010	Q&A SESSION ON THE LEGAL DYNAMICS AND IMPLICATIONS OF MINING IN OCEANS
1010 - 1030	SPEED NETWORKING SESSION <ul style="list-style-type: none"> Exchange business cards and get connected in short one-to-one meetings Start the conversation to arrange a more formal meeting later on in the conference Share your professional background and discuss your biggest business issues – don't forget your business cards! <p>Conference Host</p>
1030 - 1100	MORNING COFFEE BREAK IN THE EXHIBIT AREA
1100 - 1125	COMMERCIALISING A DEEP SEA MINING PROJECT <ul style="list-style-type: none"> Setting the context for critical minerals and navigating the regulatory frameworks Comparative risk assessment of deep sea and land-based mining projects Understanding the key ESG considerations in deep-sea mining <p>Eleanor Martin Norton Rose Fulbright</p> 
1125 - 1130	Q&A SESSION ON ISA'S LATEST REGULATIONS AND UPDATES FOR DSM
1130 - 1155	SELECTIVE HARVESTING: REIMAGINING DEEP SEA MINING <ul style="list-style-type: none"> Introducing novel selective harvesting technology to reimagine harvesting polymetallic nodules Environmental benefits of selective harvesting, including fauna avoidance and minimisation of sediment disturbance Discussion on concept economics with comparison to other mineral harvesting technology providers Technology readiness roadmap, with results from Eureka 1 testing and the status of Eureka 2 testing <p>Oliver Gunasekara Impossible Metals</p> 
1155 - 1200	Q&A SESSION ON THE ADVANCEMENTS IN NODULE HARVESTING FOR DEEP SEA MINING OPERATIONS
1200 - 1330	NETWORKING LUNCH & VISITING THE DEEP SEA MINING EXHIBITION
1330 - 1355	DEVELOPMENT OF A MANGANESE COLLECTION SYSTEM FOR MINIMUM ENVIRONMENTAL IMPACT <ul style="list-style-type: none"> The necessity for DSM to adhere to precautionary principles, aiming for the least environmental disruption Addressing the challenge of sediment plumes in manganese nodule collection and its significant implications Loke's innovative Minimum Plume Collection technology, aimed at drastically reducing the environmental impact An insightful review of the developmental journey, methodologies, and current outcomes of this groundbreaking technology <p>Walter Sognnes Loke Marine Minerals AS</p> 
1355 - 1400	Q&A SESSION ON THE TECHNOLOGIES FOR REDUCING THE ENVIRONMENTAL IMPACT IN DSM OPERATIONS
1400 - 1425	DEEP SEA MINERAL EXTRACTION: AN ALTERNATIVE VERTICAL TRANSPORT SYSTEM <ul style="list-style-type: none"> Developing a vertical transport system for sub-sea mineral extraction Adapting the transport system for diverse mineral extraction applications Integrating vertical transport with vessel design and offloading operations <p>Guido van den Bos NOV RT Marine & Construction</p> 
1425 - 1430	Q&A SESSION ON THE INNOVATIONS IN POLYMETALLIC NODULE EXTRACTION SYSTEMS
1430 - 1455	ON-SHORE HYDROMETALLURGICAL TREATMENT OF MN NODULES: CURRENT AND NEW APPROACHES <ul style="list-style-type: none"> Providing an overview of metallurgical flowsheets considered for on-shore processing of Mn nodules An update on recent internal SGS R&D focusing on selective recovery of Ni, Co, and Cu from Mn nodules The importance of metallurgical piloting in reducing project risks <p>Niels Verbaan SGS</p> 
1455 - 1500	Q&A SESSION ON THE ADVANCEMENTS IN MN NODULES TREATMENT AND PROCESSING
1500 - 1530	AFTERNOON COFFEE BREAK IN THE EXHIBIT AREA
1530 - 1555	A STEP CHANGE IN SEABED MASSIVE SULPHIDE CHARACTERISATION <ul style="list-style-type: none"> Detailing Atlab consortia and the North Atlantic research expedition of 2022 Insight into the results and significant findings from the research cruise Advanced sub-surface mapping techniques: seismic, CSEM, and MT integration <p>Dag Helland-Hansen EMGS</p> 
1555 - 1600	Q&A SESSION ON RESEARCH INITIATIVES AND RESULTS FOR EXPLORING SEABED SULPHIDES
1600 - 1625	TRACING DEEP-SEA MINING IMPACTS IN CCZ GERMAN LICENSE AREA <ul style="list-style-type: none"> Tracking the challenges of seabed and sediment plumes in mining Using EcoTrace® particles to replicate deep-sea sediment physical traits Analysing the tracing trial results and their implications on plume models Investigating the wider effects of sediment disturbances from mining <p>Josh Marsh Environmental Tracing</p> 
1625 - 1630	Q&A SESSION ON THE ADVANTAGES OF UTILISING TRACER TECHNOLOGY FOR MEASURING SEABED DISTURBANCE
1630 - 1655	EXPLORING MASSIVE SULPHIDES IN THE NORWEGIAN SEA <ul style="list-style-type: none"> Norway on the verge of adopting legislation for mineral exploration in marine environments Lessons from the Atlab-3 cruise on how to simultaneously map sulphides and the ecosystem Identifying the seafloor massive sulphide deposits through integrated geophysical technology <p>Bent Kjelhamar TGS</p> 
1655 - 1700	Q&A SESSION ON NORWAY'S COMMERCIAL EXPLOITATION ACTIVITIES AND RESEARCH
1700 - 1725	DEEP SEA MINING: HOW FAR ARE WE FROM EXPLORING THIS IN BRAZILIAN WATERS? <ul style="list-style-type: none"> Brazil's stance at the International Seabed Authority (ISA) regarding deep-sea mining Assessing the influence of Brazilian stakeholders on the future prospects of deep-sea mining Expertise and accomplishments in deep water exploration, with a focus on the oil and gas industry <p>Joao Humberto Guandalini Batista Foresea</p> 
1725 - 1730	Q&A SESSION ON BRAZIL'S JOURNEY TOWARDS DEEP SEA MINING AND THE FUTURE PROSPECTS
1730 - 1830	NETWORKING DRINKS RECEPTION

DAY 2: THURSDAY, 18 APRIL, 2024

0900 - 0930	MORNING REFRESHMENTS
0930 - 0940	OPENING ADDRESS
0940 - 1005	THE ISA'S RULES, REGULATIONS, AND PROCEDURES FOR EXPLOITATION: SUITABLE FOR ACTION? <ul style="list-style-type: none"> Overview of ISA's Rules, Regulations, and Procedures on exploitation, legal risks, and gaps The legal and logistical challenges in deep-sea mining exploitation Analysis of uncertainty and risk in the supply chain from nodule extraction to the end customer Presentation on various areas of risk and how they can be minimised and/or allocated through contracts <p>Louise Woods Vinson & Elkins</p> 
1005 - 1010	Q&A SESSION ON THE LEGAL AND LOGISTICAL CHALLENGES IN THE DEEP-SEA MINING INDUSTRY
1010 - 1035	DEEP SEA MINING IMPACT ON LONG-RUN COMMODITY PRICES <ul style="list-style-type: none"> Examining the potential increase in mineral supply due to deep-sea mining and its market implications The long-term effects of deep-sea mining on commodity price levels and volatilities Geopolitical and market dynamics introduced by deep-sea mining activities The environmental, economic, and technological factors influencing these impacts <p>Juan Ignacio Guzmán GEM Mining Consulting</p> 
1035 - 1040	Q&A SESSION ON ASSESSMENT OF THE ENVIRONMENTAL AND ECONOMIC OUTCOMES OF DEEP SEA MINING
1040 - 1105	REALISING DEEP SEA MINING – INFORMED HOLISTIC SHIP AND TRANSPORT CHAIN DESIGN <ul style="list-style-type: none"> Ship and marine systems design within regulatory frameworks and key drivers Evaluating offloading and transportation with a focus on life cycle considerations Strategies for realising compliant and safe mining asset solutions Drawing on real-life mining ship projects to address subsea design challenges <p>Keith Hutchinson Safinah Group</p> 
1105 - 1110	Q&A SESSION ON ROBUST DESIGN SOLUTIONS FOR SUBSEA MINING OPERATIONS
1110 - 1130	MORNING COFFEE BREAK IN THE EXHIBIT AREA
1130 - 1155	NEXT-GENERATION TECHNOLOGY TO FAST-TRACK SUSTAINABLE EXPLORATION OF SEABED MINERALS <ul style="list-style-type: none"> Implementing AI-based technology to enhance decision-making in locating critical metal sources Mineral targeting system that integrates diverse data with machine learning for predictive mapping of deposits Status update on recent advancements, focusing on the polymetallic nodules resource assessment pipeline Reviewing the potential of the Clarion-Clipperton Zone in the context of deep-sea mineral exploration <p>João Carvalho Deep Focus</p> 
1155 - 1200	Q&A SESSION ON THE BENEFITS OF CUTTING-EDGE TOOLS FOR EXPLORING CLEAN ENERGY MINERALS IN THE DEEP SEA
1200 - 1225	DEEPSEA MINING: TECHNOLOGICAL, ENVIRONMENTAL, AND SOCIETAL APPROACHES <ul style="list-style-type: none"> Stakeholders' concerns regarding the viability of sustainable deep-sea mining Challenges in DSM include technological maturity, environmental impact, and benefit equity Options for DSM, such as robotics, AI in mining, financial strategies, and closed-loop systems Support for DSM through regulatory frameworks, risk management, and mitigation strategies <p>Anantha Padmanabhan SeaTech Solutions Europe</p> 
1225 - 1230	Q&A SESSION ON SUSTAINABILITY AND THE FINANCIAL VIABILITY OF DSM PROCESSES
1230 - 1255	MASSIVE SULPHIDE DEPOSITS AT THE SOUTHWEST INDIAN RIDGE <ul style="list-style-type: none"> Hydrothermal circulation and its importance in the Southwest Indian Ridge Modeling massive sulphide mineralisation in ultraslow-spreading ridges Innovation in technologies and their practical applications The current status and future prospects of sulphide exploration <p>Chunhui Tao Second Institute of Oceanography</p> 
1255 - 1300	Q&A SESSION ON THE TRENDS AND TECHNOLOGIES FOR SULPHIDE DEPOSIT EXPLORATION
1300 - 1315	FEEDBACK & RAFFLE DRAW
1315 - 1430	NETWORKING LUNCH

Key topics for 2024:

- The economic landscape and drivers for growth in Deep Sea Mining.**
 Understand the key market drivers and growth prospects for the near term. Where are the opportunities?
- Achieving sustainable seabed mining projects in harmony with nature**
 Hear from frontline deep sea ecological experts on the latest techniques to build an environmental impact assessment plan
- The status of prospecting and exploration, the latest methods and results**
 Explore new areas of economic value and be the first to hear about the latest methods and results from prospecting and exploration activities
- Regional opportunities to harvest Seafloor Massive Sulphides and Manganese Nodules**
 Discover the hottest regional opportunities to harvest Seafloor Massive Sulphides and Manganese Nodules from geological experts
- Working with nations through a regulatory framework, the opportunities and risks**
 Hear from key regulators and develop a cohesive plan to work with the International Seabed Authority and individual nations through the regulatory challenges
- Technological developments associated with commercialising Deep Sea Mining.**
 Be at the cutting edge of technological developments for deep sea mining and explore diversification opportunities for existing companies involved in offshore applications

Testimonials

- A very informative summit, addressing novel technical approaches for exploration and monitoring of deep sea mining. The emphasis on environmental responsibility was very encouraging.
Richard Davies, Fugro
- Deep sea mining is together with shale fuel the most interesting and ground breaking growth industry in the next 25 years- and the yearly deep sea mining summit is a key forum to attend.
Peter Jantzen, Wartsila
- The event brought together a wide spectrum of industry players and the associated flow of an organisations to provide an up to date window into a new developing industry.
Rick Phipps, Seas Offshore
- Excellent conference, great to have key industry players in one room.
Mark Braun, Minister of

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