

## **“From Offshore Oil & Gas to Deep Seabed Mining: new technologies and emerging issues”**

### **Online Workshop 18-19 November 2020 - Agenda**

#### **November 18<sup>th</sup> (Times are CET)**

#### ***Session 1 – Offshore Oil & Gas and Deep Seabed Mining: comparison of value chains, knowledge- and technology transfer, environmental challenges***

- 13:30 Welcome by Gianluca Alberini – Principal Director for United Nations, Ministry of Foreign Affairs and International Cooperation of Italy
- 13:35 Introductory remarks by Fabrizio Nicoletti – Principal Director for Innovation and Research, Ministry of Foreign Affairs and International Cooperation of Italy
- 13:40 Netiquette and instructions for the audience by Marzia Rovere, National Research Council of Italy, convener
- 13:45 Fukushima Tomohiko – Deep Ocean Resources Development, Co. Ltd (DORD) “Environmental impact of the redeposition event associated with deep sea mining”
- 14:05 Li Xiangyang – China Ocean Mineral Resources R & D Association (COMRA) “Recent Progress of Chinese 1000 m Deep Seabed Nodule Mining Test Project”
- 14:25 Gianni Scherl – Fincantieri Oil & Gas “Surface operations in offshore Oil & Gas and deep sea Mining: a comparative analysis”
- 14:45 Jon Machin – DeepGreen “Recent Progress towards Delivering the Millenium’s First Deep Sea Mining Pilot Test”
- 15:05 Samantha Smith – Global Sea Mineral Resources (GSR) “Introducing GSR: Advances in Technology and Environmental Management Practices for Deep Seabed Mining”
- 15:25 Tomasz Abramowski – InterOcean Metal joint organization
- 15:45 Arne Myhrvold – Equinor “Applying Environmental management from the O&G industry in Deep Sea Mining operations”
- 16:05 Ted Brockett – Okeanus/Continental Shelf Associates, Inc. “Ocean Mining, No Longer a Dream”
- 16:35 Q&A on technological gaps in Deep Seabed Mining: discussion on technical and technological requirements for deep seabed mining and effective remote monitoring of the environment and the infrastructures; identification of value chain similarities and overlaps for oil & gas and deep seabed mining.

## November 19<sup>th</sup> (Times are CET)

### ***Session 2 - Offshore Oil & Gas and Deep Seabed Mining: concurrent development of innovative technologies, best practices and state-of-the art efforts for remote sensing environmental monitoring of the Deep and Open Sea***

- 13:30 Welcome by Daniele Bosio, Coordinator for Seas and Ocean Affairs, Ministry of Foreign Affairs and International Cooperation of Italy
- 13:35 Netiquette and instructions for the audience, follow up from previous session by Marzia Rovere, National Research Council of Italy, convener
- 13:40 Mario Marchionna – Saipem “From deep-sea operations to deep sea mining: lessons learned from a contractor’s experience”
- 14:00 Marcello Iocca – WasteandChemicals S.r.l. “Standard and EU BAT references documents: lessons learned from the O&G accepted approaches”
- 14:20 Marco Bibuli – National Research Council of Italy “Autonomous marine vehicles for environmental monitoring, adaptive sampling and damage identification: smart strategies from harbours to offshore infrastructures”
- 14:40 Roberto Gigotti – e-GEOS “Environmental and Situational Awareness monitoring by means of Earth Observation satellites technology to detect oil spill, potential polluters and to monitor marine infrastructures: the SEonSE and AWARE service platforms”
- 15:00 Roberto Danovaro – Stazione Zoologica Anton Dohrn/Polytechnic University of Marche “Understanding the impacts of deep-sea mining and the cost of habitat restoration”
- 15:20 Nadia Pinardi – University of Bologna/CMCC “Forecasting and hazard mapping of oil spills across the oceans”
- 15:40 Giorgio Riccobene – LNS, National Institute of Nuclear Physics “The KM3NeT telescope: a new frontier for astrophysics and deep sea observation”
- 16:00 Felix Janssen – AWI Bremerhaven “The Deep Ocean Observing Strategy's (DOOS) approach for implementing a global deep ocean observing system: benefits and contributions of multiple stakeholders”
- 16:20 Jamie McMichael-Phillips – The Nippon Foundation-GEBCO Seabed 2030 Project Director “Ongoing initiatives to map the Ocean by 2030”
- 16:40 Final remarks on emerging technologies and global efforts for remote sensing environmental monitoring of the Deep and Open Sea. Identification of emerging technologies and best practices to be applied in Deep Sea Mining for environmental, infrastructure monitoring and baseline assessment.



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