



INDIAN OCEAN RIM ASSOCIATION

Indian Ocean region workshop Exploration and Development of Seabed Minerals and Hydrocarbons: Current Capability and Emerging Science Needs

Host: Australian Institute of Marine Science

Location: Ayodya Resort, Bali, Indonesia

The workshop structure will have four focussed sessions, each introduced by two experts. Following these short presentations, breakout groups will discuss Member States' experiences, gaps and needs in relation to seabed mining. The groups will then come back together to jointly discuss and prioritise potential actions. The outputs from each session will be synthesised at the end of Day 2 into recommendations for inclusion in the final Communiqué.



Saturday, 25th July

All day	Delegates arrive Indonesia
6.00pm	Registration and welcome reception – All speakers and participants to attend <i>Outdoor area, Ayodya Resort</i> Dress code: <i>Smart casual</i>

Sunday, 26th July

	Title	Who
9.00am	Official Opening	Minister/IORA Secretariat
9.15am	Introduction to the Workshop	John Gunn <i>Chief Executive Officer, Australian Institute of Marine Science</i>
9.25am	IORA welcome	Firdaus Dahlan <i>Director, IORA</i>
9.35am	Outline of arrangement	Chris Gray <i>Facilitator</i>
9.45am	<i>Official photos</i>	<i>All delegates to participate in photo shoot in foyer</i> Dress code: <i>Business attire (can change to business casual after photos)</i>
10.00am	Member State Introductions	All participants Member State nominees and experts to introduce themselves, their expertise and their countries interest in seabed resource development
10.40am	MORNING TEA	
11.00-1.00pm	Plenary Sessions: 30 minutes each with 10 minutes for questions after each presentation	
11.00am	Seabed mineral resources in the Indian Ocean – what do we know: types and distribution of seabed mineral resources, resource potential, status of areas claimed by different ‘contractors’, and the economics of DSM	Rahul Sharma <i>National Institute of Oceanography, India</i>
11.40am	Seabed Mining within Exclusive Economic Zones: Emerging lessons from Namibia and South Africa	Alex Benkenstein <i>South African Institute of International Affairs</i>
12.20pm	The South Pacific Experience – from identification to capacity building to industry A description of the approach taken in the Secretariat of the Pacific Community, and the lessons learned	Alison Swaddling <i>Secretariat of the Pacific Community</i>
1.00pm	LUNCH	

2.00-3.30pm	Session 1: Policy and governance fundamentals for seabed exploration and resource development	
2.00pm	Rights and responsibilities of Member States within and beyond areas of national jurisdiction	Justin Whyatt <i>Australian Department of Foreign Affairs and Trade</i>
2.10pm	Resource development policy – the Australian experience	Paul Kay <i>Geoscience Australia</i>
2.20pm	Facilitated Group Discussion (Workshop facilitator plus Member State rapporteur)	
3.30pm	AFTERNOON TEA	
4.00-5.30pm	Session 2: Managing sustainability - environmental and social considerations	
4.00pm	The importance of environmental baselines and monitoring Lessons from the offshore oil and gas industry in Australia and the contribution by public-private partnerships	Andrew Heyward <i>Australian Institute of Marine Science</i>
4.10pm	Social perspectives on deep sea mining Looking at the community perception of risk and community expectations; and developing a social licence to operate	Elaine Baker <i>Sydney University</i>
4.20pm	Facilitated Group Discussion (Workshop facilitator plus Member State rapporteur)	
5.30pm	CLOSE OF DAY 1	
7.00pm	WORKSHOP DINNER <i>Dress code: Smart casual</i>	

Monday, 27th July

	Title	Presenter/s
9.00am	Review of Sunday 26 th July	Mr Chris Gray <i>Facilitator</i>
9.15-10.45am	Session 3: Technologies and skills for exploration and management of Indian Ocean seabed resources	
9.15am	Identifying what is where – survey and analytical tools Technologies used for multi-disciplinary data collection for resource estimation, plus design and operation of mining systems	Rahul Sharma <i>National Institute of Oceanography, India</i>
9.25am	Data management and the importance of standards in building regional information Collaboration and cooperation is underpinned by sharing of data in an accessible format. Here we will discuss how this can be done and the value this will generate.	Lyndon Llewellyn <i>Australian Institute of Marine Science</i>
9.35am	Facilitated Group Discussion (Workshop facilitator plus Member State rapporteur)	
10.45am	MORNING TEA	

11.15am-1.00pm			Session 4: Partnering in sustainable development		
11.15am	Obtaining desirable outcomes in the Deep Sea Mining Sector A regional approach to building capacity to engage with industry and how to include economic and social environmental considerations in negotiations	Alison Swaddling <i>Secretariat of the Pacific Community</i>			
11.25am	Sustainability: how it relates to Deep Sea Mining How the Post-2015 Sustainable Development Goals relate to development of seabed minerals	Rak Kim <i>Griffith University</i>			
11.35am	Facilitated Group Discussion (Workshop facilitator plus Member State rapporteur)				
1.00pm	LUNCH				
2.00pm-5.00pm			Session 5: Workshop synthesis (Afternoon Tea to be taken at a convenient time)		
2.00pm	Synthesis and Final Recommendations Working session to develop agreed recommendations and approval of the Communique from participating Member States. Recommendations to consider researcher exchanges, capacity building, technology transfer and an IORA Core Group	John Gunn and Firdaus Dahlan <i>Co-Chairs</i>			
5.00pm	CLOSING REMARKS	John Gunn and Firdaus Dahlan			
	Workshop Evaluation Delegates will be asked to complete an appraisal form about the Workshop				
5.00pm	WORKSHOP CLOSE				
7.00pm	Farewell Dinner <i>Dress code: Smart casual</i>				

Tuesday, 28th July

All day	Delegates depart Indonesia
---------	----------------------------