

Global Sea Mineral Resources NV DEME-Group

Assessment of the GSR Training Programme



INTERNATIONAL WORKSHOP ON CAPACITY DEVELOPMENT, RESOURCES & NEEDS ASSESSMENT

Kingston, Jamaica

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DEME

Dredging, Environmental
& Marine Engineering

ISA - GSR Training Courses



Each contractor of the ISA has the legal obligation to support a total of 10 trainees, as stipulated in the latest ISA Regulations* applicable to all contractors.

During the first 5-year phase of its Exploration Contract, GSR has financially supported 10 trainees, who successfully obtained their certificates.

4 types of training were proposed to the candidates:

- ❖ Rhodes Academy Courses (Rhodes - Greece): Center for Oceans Law and Policy (3 wks)
- ❖ APEC Training (Antwerp - Belgium): Seminar on Dredging Technologies (2 wks)
- ❖ GSR Professional Training (CCZ – Pacific Ocean): Internship on board of the GSR exploration vessel (4 to 6 wks)
- ❖ Master Courses “Oceans & Lakes” (Brussels, Antwerp – Belgium): Fellowship about marine and lacustrine biology and geology (2 yrs)



*Regulation 27 of the Regulations on prospecting and exploration for polymetallic nodules / Article 15 of Annex III to the Law of the Sea Convention / Recommendations for the guidance of contractors and sponsoring States to training programmes under plans of work for exploration (ISBA/19/LTC/14)



ISA- GSR Trainees



1. Ms. Carolina M.L. Camargo – **Brazil** – Master in Belgium
2. Ms. Nadzeya Shymbaliova – **Belarus** – Master in Belgium
3. Mrs. Talatu Akindolire – **Nigeria** – Rhodes Academy in Greece
4. Ms. Rochelle Lee – **Jamaica** – Rhodes Academy in Greece
5. Mr. Thiha Thiha Thwin – **Myanmar** - Rhodes Academy in Greece
6. Ms. Danellia Aitcheson – **Jamaica** – Dredging course in Belgium
7. Ms. Ana Clara Coni et Melo – **Brazil** – Dredging course in Belgium
8. Mr. Elle Pathirathnalage Thilakarathne – **Sri Lanka** – Dredging course in Belgium
9. Ms. Athukorala Sayakkara Mesthrilage – **Sri Lanka** – GSR Offshore Expedition
10. Mr. Palma Fermin – **Argentina** – GSR Offshore Expedition



GSR Trainees



1. Mr. Gatien De Callatay – **Belgium** – GSR Offshore Expedition
2. Mr. Fatialofa Eusenio David – **Cook Islands** – GSR Offshore Expedition
3. Ms. Céline Taymans – **Belgium** – GSR Offshore Expedition
4. Mr. Antoon De Jonckheere – **Belgium** – Master Thesis
5. Mr. Lenard Marckx – **Belgium** – Master Thesis
6. Mr. Wouter De Bruycker – **Belgium** – Master Thesis
7. Mr. Mathieu Van Havere – **Belgium** – Master Thesis



GSR Training Programme (2019 – 2023)

TYPE OF TRAINING	FELLOWSHIP EDUCATION		PROFESSIONAL EDUCATION	PROFESSIONAL TRAINING	
	BELGIAN UNIVERSITIES [VUB - UAntw - Ugent]	LIEGE UNIVERSITY [BELGIUM]	TBC	CONTRACTOR & PARTNER COMPANIES [BELGIUM & OFFSHORE]	ANTWERP PORT TRAINING CENTER Seminar on Dredging Technologies
NUMBER OF TRAINEES	2 x Nationals from developing countries selected by ISA	2 x Nationals from developing countries selected by ISA	2 x Nationals from developing countries selected from an ISA list	2 x Nationals from developing countries selected from an ISA list	2 x Nationals from developing countries selected from an ISA list
DURATION	Two year-fellowship	Two year-fellowship	2-3 weeks	4 to 6 weeks	2 weeks
DATE	As from September	As from September	Spring / Summer	October / November	June
SoW	Master Degree: "Ocean and Lakes"	Master Degree: "EMerald"	Oceans Law and Policy	Technical and/or environmental participation during the 2019 GSR offshore campaign.	High-Level technical seminar on Dredging Technologies
DOMAINS	Marine Geology/Marine environmental/Geophysics/Hydraulic Engineering	Master's Programme in Resources Engineering	Law of the Sea	ROV-type and/or environmental mooring operations (technical more than scientific)	All essential theoretical and practical aspects with regard to the dredging industry
ADMISSION CRITERIA	Bachelor's degree in : biology, biochemistry and biotechnology, chemistry, geology, geography, geomatics, bio-engineer science, environmental sciences	Bachelor's degree in Engineering with basic knowledge in Geology (minimum 3 years of study or 180 ECTS credits) or a Bachelor's Degree in Minerals Engineering, Mining Engineering, Chemical Engineering, Geological Engineering, Metallurgical Engineering or a Master's degree in Geology.	Legal background	Technical or environmental Master degree	Technical degree
FINANCING	Contractor covers travel cost & provides accommodation and tuition fees.	Contractor covers travel cost & provides accommodation and tuition fees.	Contractor covers travel cost & provides accommodation and tuition fees.	Contractor covers travel cost, medical, safety training & provides accommodation and tuition fees.	Contractor covers travel cost & provides accommodation and tuition fees.
WEBSITE	http://oceansandlakes.be/	https://www.emerald.uliege.be/		https://www.deme-gsr.com/	https://apeporttraining.com/course/dredging-technologies/
YEARS	Year 7 & Year 9	Year 7 & Year 9	Year 7 & Year 9	Year 8	Year 7 & Year 9

➤ 25% increase of the GSR Training Budget from Phase 1 to Phase 2 of the GSR Exploration Contract.



GSR Fellowship Opportunity (Scholarship years 2020 – 2021)



- ▶ Master “EMerald” organised by four European Universities – University of Liège (ULiège), University of Lorraine (UL), Luleå University of Technology (LTU) and Technische Universität Bergakademie Freiberg (TUBAF). The programme is designed to focus on the following aspects: **Resources Engineering, Characterisation, Processing, Modelling and Management**. The EMerald Master Programme has been designed to **find the right balance between knowledge of resources** (geology, landfills, urban mines, reserve characterisation and modelling) **and process engineering techniques**.

<https://www.emerald.uliege.be/>

- ▶ Master of “Marine and Lacustrine Science and Management” programme will be organized by the Faculty of Science of the Free University of Brussels, Antwerp University and Ghent University. The programme adopts a multidisciplinary approach integrating physical, chemical, geological, ecological and societal aspects including nature conservation and sustainable development.

<http://oceansandlakes.be/>



GSR-ISA Trainee Testimonials





THANKS FOR YOUR ATTENTION

www.deme-gsr.com

