

UK-Philippines Minerals and Mining Scoping Meeting

3-5 March 2020

Hotel Astoria, Puerto Princesa, Palawan

This meeting, jointly organised by the UK Natural Environment Research Council (NERC), The Department of Science and Technology - Philippine Council for Industry, Energy and emerging Technology research and development (DOST-PCIEERD) aims to:

1. Clearly articulate the challenges affecting the Philippines in the mining sector, and identify the gaps and opportunities for a research programme to help to address these challenges.
2. Define the scope of a potential new UK-Philippines programme which might broadly include (but is not limited to) the following areas:
 - The impacts of past/current mining practices, potentially including (but not limited to):
 - Land use change and landscape fragmentation
 - Ecosystem effects and recovery
 - Biodiversity
 - Environmental contaminants and their effects on human health
 - Air and water quality
 - The abiotic and biotic factors that inform mining practice
 - New, innovative, less invasive techniques and practices for mineral discovery, processing (at all stages) and extraction
 - The evidence and data needed to inform policy and regulatory decisions on the sustainability of mining in the Philippines.
3. To facilitate links between the UK and Philippines research communities in the area of natural environment research and new technology development.

Funding representative, speakers and chairs

- **Dr Sarah Webb:** International Associate Director, NERC
- **Dr Rebecca Scott:** Senior Programme Manager, NERC
- **Nicola Lewis:** Programme Manager, NERC
- **Dr. Enrico C. Paringit:** Executive Director, DOST-PCIEERD
- **Engr. Raul C. Sabularse:** Deputy Executive Director, DOST-PCIEERD
- **Engr. Niñaliza H. Escorial:** Division Chief, DOST-PCIEERD
- **Engr. Ramon Santos:** PCIEERD Governing Council Member

Invited/Keynote Speakers:

- **Atty. Ronald Rex Recidoro:** Executive Director, Chamber of Mines of the Philippines
Engr. Rodolfo Velasco, Jr: representing **Atty. Wilfredo Monaco**, Director, Mines and Geosciences Bureau, Dept. of Environment and Natural Resources.

- **Dr. Rhodora Reyes:** Head, Poison Control Center and Chairman, Research Ethics Review Committee
- **Prof. Mark Tibbett:** School of Agriculture, Policy and Development, University of Reading.
- **Dr. Michael Angelo Promentilla:** Professor. Chemical Engineering Department. Head, Waste and Resource Management Unit Center for Engineering and Sustainable Development Research (CESDR) De La Salle University (DLSU)
- **Prof. Richard Herrington:** Head of Earth Sciences, Natural History Museum.
- **Dr. Adam Jarvis:** Reader in Environmental Engineering, Newcastle University
- **Dr. Carlo A. Arcilla:** Director, Dept. of Science and Technology - Philippine Nuclear Research Institute (DOST-PCIEERD); Professor, University of the Philippines – National Institute of Geological Sciences (UPNIGS)
- **Engr. Rodolfo Velasco:** Chief, Mine Safety, Environment and Social Development Division, Mines and Geosciences Bureau (MGB)
- **Engr. Alvin Requimin:** Palawan Quicksilver Mining Inc. (PQMI)
- **Dr. Graciano P. Yumul, Jr:** Retired APEX Mining Co. Inc. Executive Vice President: Geology and Operations; former DOST Undersecretary for R&D, former PCIEERD Executive Director; Professor at the University of the Philippines National Institute of Geological Sciences (UPNIGS)
- **Mr. Arturo Manto:** Coral Bay Nickel Corp. (CBNC)
- **Mr Jonathan Hobbs:** Managing Director, HobbsTigon Limited.

Agenda

Pre-workshop Icebreaker (02 March 2020, Monday)		
19:00-21:00	Icebreaker Dinner Hotel Astoria	
Day 1 (03 March 2020, Tuesday)		
Time	Title & Invited Speakers	Lead/Introducer
08:30-09:00	Arrival and registration - Refreshments on arrival (tea/coffee)	Nicky and Joshua
9:00-09:05	Welcome remarks - TBC	Hon. Lucilo Bayron Mayor, Puerto Princesa, Palawan
09:05 – 09:10	Welcome and general opening	Dr. Enrico C. Paringit & Dr Sarah Webb
09:10-09:30	Introductions from the funders: <ul style="list-style-type: none"> - PCIEERD: (10 mins) - NERC: (10 mins) <i>Funders to introduce themselves and their funding agencies/councils, including the remit of these councils, their interest in the mining/minerals area, and how any new potential programme might fit into their current/past investments.</i>	Dr. Enrico C. Paringit & Dr. Sarah Webb

09:30-09:45	<p>Aims and objectives of the workshop and a potential Philippines-UK collaborative research programme on minerals and mining in the Philippines</p> <ul style="list-style-type: none"> - Presentation (10 mins) - Q&A session (5 mins) 	Dr. Sarah Webb
09:45-10:25	<p>Minerals and Mining in the Philippines (context and challenges):</p> <ul style="list-style-type: none"> - Private sector perspective (15 mins): <i>Atty. Ronald Rex Recidoro</i> - Government/Regulatory agency perspective (15 mins): <i>Atty. Wilfredo Monaco (to be represented by Engr. Rodolfo Velasco, Jr.)</i> - Q&A (10 mins) 	Dr. Enrico C. Paringit
10:25 – 11:00	<p>The Challenges of Past and Present Mining Practices (part 1)</p> <p><i>Mix of Philippine and UK speakers, presenting case studies/examples of specific challenge areas and/or observations from past projects/research as well as setting the scene of the challenge in this area:</i></p> <ul style="list-style-type: none"> - Effects of mining on human health (7 mins) <i>Dr. Rhodora Reyes</i> - The impacts of mining on terrestrial systems (7 mins) <i>Prof. Mark Tibbett</i> - Waste tailings utilization (7 mins): <i>Dr. Michael Angelo Promentilla</i> - Low-impact mineral exploration (7 mins) <i>Prof. Richard Herrington</i> 	Dr. Rebecca Scott
11:00 – 11:30	Break with refreshments available	
11:30-12:10	<p>The Challenges of Past and Present Mining Practices (part 2)</p> <ul style="list-style-type: none"> - Water quality impacts (7 mins) <i>Dr. Adam Jarvis</i> - Technology challenges for mineral discovery, processing and extraction (7 mins) <i>Dr. Carlo A. Arcilla</i> 	Dr. Rebecca Scott

	<ul style="list-style-type: none"> - The challenges associated with the rehabilitation of mines (7 mins) <i>Engr. Rodolfo Velasco</i> - General Q&A session for all speakers from part 1&2 (15 mins) 	
12:10-13:00	Speed introductions (from each participant) <ul style="list-style-type: none"> - 1 minute introduction 	Dr Rebecca Scott
13:00-14:00	Lunch & Poster Session	
14:00-15:30	Facilitated breakout sessions: What are the priority research areas and challenges? <ul style="list-style-type: none"> - <i>Participants suggest/discuss top ~3 priority research areas/challenges that a collaborative programme could address</i> - <i>Facilitators will invite the break out groups to discuss and challenge the suggestions from the wider group, and ensure that all thoughts are captured for the report back session</i> 	Chairs: Dr Sarah Webb Dr Rebecca Scott, Engr. Niñaliza H. Escorial Engr. Ramon Santos
15:30-16:00	Break out groups report back/full group discussion <ul style="list-style-type: none"> - <i>Rapporteurs from the breakout groups (participants not organisers) will reflect on the conversation</i> 	Dr Sarah Webb
16:00-16:30	Break with refreshments available <i>(organisers will cluster outputs from first session into common themes)</i>	
16:30-17:15	Facilitated breakout sessions building on priorities identified in the morning session: <ul style="list-style-type: none"> - <i>Individual groups to take on specific areas/themes and further discuss and flesh-out the scope of this area</i> 	Chairs: Dr. Sarah Webb Dr. Rebecca Scott Engr. Ninaliza H. Escorial
17:15-17:50	Break out groups report back/full group discussion	Dr Sarah Webb
17:50-18:00	Wrap up of Day 1 and introduction to activities and logistics for day 2	Engr. Ninaliza H. Escorial
18:00	Close of day 1	
PM	Free evening	
Day 2 (04 March 2020 Wednesday): Field Site visit to Palawan Quicksilver Mining Inc. (PQMI)		

07:45-08:00	Registration	Nicky
08:00-08:30	PQMI presentation: - Background/government efforts in converting the area into ecotourism	Engr. Alvin Requimin
08:30 – 09:00 09:00 – 12:00	Travel to PQMI PQMI tour of: - Jetty - Pit lake - Sanitary landfill - Reclaimed area	
12:00-12:30	Travel back to the hotel	
12:30-13:30	Lunch & chance to look at posters	
13:30 – 14:10	Keynote speech: - Status of mining and exploration in the Philippines <i>Dr. Graciano P. Yumul, Jr.</i> (30 mins) - Q&A (10 mins)	Dr. Enrico C. Paringit
14:10 -14:45	- Coral Bay Nickel Corp. (CBNC) mine case study talk with videos <i>Mr. Arturo Manto</i> (30 mins) - Q&A (5 mins)	Dr. Enrico C. Paringit
14:45-15:45	Reflections from PQMI site visit and CBNC case study through facilitated further discussions (breakout groups): - Reflections on the challenges within Mining in the Philippines? - Reflections on the programme area scope - Individual groups to take on specific areas/themes and further discuss and flesh-out the scope of this area	Chairs: Dr Sarah Webb Dr Rebecca Scott Engr. Ninaliza H. Escorial Engr. Ramon Santos
15:45-16:15	Break	
16:15-17:00	Feedback from break out groups and full group discussion	Dr Sarah Webb
17:00-17:15	Wrap up day 2	Engr. Niñaliza H. Escorial
17:15	Close of day 2	

18:30	Workshop Dinner, Hotel Astoria	
Day 3 (05 March 2020) Thursday		
09:00-09:35	Keynote: <ul style="list-style-type: none"> - Challenges and opportunities of working internationally (30 mins) Mr Jonathan Hobbs - Q&A (5mins) 	Dr Rebecca Scott
09:35-10:35	Challenges and opportunities for collaboration between UK and Philippines: <i>Facilitated breakout sessions could include discussion around partnership building, data management, facilities, expertise, capacity building</i>	Chairs: Dr Sarah Webb Dr Rebecca Scott Engr. Ninaliza H. Escorial Engr. Ramon Santos
10:35-11:05	Break out groups report back and full group discussion	Dr Beth House
11:05-11:30	Break	
11:30-12:30	What would success look like? Group discussions on: <ul style="list-style-type: none"> - Potential impact of a collaborative programme of this nature, - Potential deliverables that would not have happened otherwise? - Potential benefit to the Philippines and the UK? - What evidence/data are necessary to inform policy and regulatory decisions for sustainable mining practice in the Philippines? - What size of investment and types of projects/funding would facilitate an impactful collaboration? 	Chairs: Dr Sarah Webb Dr Rebecca Scott Engr. Ninaliza H. Escorial Engr. Ramon Santos
12:30-13:00	Wrap up of Day 3 and workshop <ul style="list-style-type: none"> - Summarise workshop activities and outputs - Next steps - Final Q&A 	Dr. Sarah Webb & Engr. Ninaliza H. Escorial
13:00	End of workshop / lunch	
Day 3: Post workshop funders meeting		
14:00-15:00	Funders meeting	

