



Further Reading List for Public Lecture: Close to the edge? Approaching new frontiers for mineral and metal resources

Andrew Bloodworth, Science Director for Minerals and Waste at the British Geological Survey

Wednesday 14 February 2018

The reading list can be found at: <https://www.geolsoc.org.uk/closetotheedge>

Popular Articles and Resources

Background

- a. The Geological Society: 2018 Year of Resources
www.geolsoc.org.uk/Resources18
- b. The Geological Society: Geology for Society, Minerals
www.geolsoc.org.uk/minerals
- c. The Geological Society: Rare earth elements briefing note
www.geolsoc.org.uk/ree

Supply and Demand for Minerals

- a. American Geosciences Institute – Tracking the Global Supply of Critical Materials online webinar
www.americangeosciences.org/policy-critical-issues/webinars/tracking-global-supply-critical-materials
- b. Cobalt Market Review: Cobalt recognised as a critical mineral and battery demand drives prices
www.investorintel.com/market-analysis/market-analysis-intel/cobalt-market-review-drc-recognition-cobalt-critical-mineral-battery-demand-drives-price-higher/
- c. Financial Times Opinion from David Humphreys, former chief economist at Rio Tinto and John Tilton, Professor at Colorado School of Mines– No cause to panic about mineral depletion
www.ft.com/content/5abbc8e6-f7bd-11e7-88f7-5465a6ce1a00
- d. Minerals Products Association – Proposed UK Minerals Strategy

http://www.mineralproducts.org/documents/MPA_UK_Minerals_Strategy.pdf

New Mineral Resource Frontiers

- a. The Royal Society – Future ocean resources: metal-rich minerals and genetics evidence pack
www.royalsociety.org/topics-policy/projects/future-ocean-resources/
- b. Engineering.com – Asteroid Mining
www.engineering.com/DesignerEdge/DesignerEdgeArticles/ArticleID/15308/Asteroid-Mining-Who-Wants-to-be-a-Trillionaire.aspx
- c. Financial Times -Sirius Minerals and the battle to build Britain's deepest mine
<https://www.ft.com/whitbymine>
- d. Financial Post – Arctic has great riches, but greater challenges
www.business.financialpost.com/commodities/mining/arctic-has-great-riches-but-greater-challenges
- e. Reuters – U.S. court upholds Grand Canyon uranium mining ban, but allows mine nearby
<https://www.reuters.com/article/us-usa-mining-grandcanyon/u-s-court-upholds-grand-canyon-uranium-mining-ban-but-allows-mine-nearby-idUSKBN1E62LO>

Sustainable Resource Extraction

- a. International Union of Geological Sciences – Resourcing Future Generations Initiative
<http://iugs.org/index.php?page=resourcing-the-future-initiative>
- b. World Economic Forum – How can mining become more sustainable?
<https://www.weforum.org/agenda/2014/02/will-mining-look-like-sustainable-world/>
- c. International Institute for Environment and Development – Mining, Minerals and Sustainable Development (MMSD)
www.iied.org/mining-minerals-sustainable-development-mmsd
- d. Resource Extraction and Sustainable Arctic Communities - A Nordic Centre of Excellence
www.rexsac.org/

Books and Journal Articles

Lusty, P A J & Gunn, A G (2015) Challenges to global mineral resource security and options for future supply. In: Jenkin et al (ed): Ore Deposits in an Evolving Earth. Geological Society Special Publication 393.

Arndt et al (2017) Future Global Mineral Resources. Geochemical Perspectives Volume 6 (1).
<https://www.geochemicalperspectives.org/online/v6n1>

Veronese, K (2015) Rare: The high stakes race to satisfy our need for the rarest metals on Earth. Prometheus Books, New York, 272 pages.