



Mining and Metallurgical Society of America

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The E in ESG: There is no S or G without the E. Early, effective and encompassing environmental characterization and management.

2022 ESG#4 Webinar Series

**March 18, 2022 -- 1pm MT
QP ENHANCEMENT COMMITTEE**

The MMSA QP Enhancement Committee offers a series of webinars about ESG designed for professionals working for mining companies and those involved in the preparation of studies and disclosure documents.

The ESG Webinar Series

The accepted standards of environmental stewardship, social license and governance of mineral endowments are constantly changing. QPs must know the issues of importance to society and be prepared to adapt and respond to changing societal norms. The series will also be of interest to the legal, financial, management and academic sectors of the industry.

Five webinars are in the series. Four have been produced and the Fifth will be held on April 22, 2022.

1. ESG Panel of Experts Discussion – This Webinar was held October 1. The YouTube Recording is available at: <https://youtu.be/fHJ4Xz4bWAs>
2. Social issues – how to obtain and secure the “social license” to operate. Available at: <https://youtu.be/P6M0UUI21E8>
3. Governance – making the right ESG decisions in the Board Room. Available at: <https://youtu.be/OfnqlzZCmgY>
4. Environmental and permitting – meeting the standards demanded by governments. Title: The E in ESG: There is no S or G without the E. Available at: <https://youtu.be/h6l8RgQOnRw>
5. ESG 101 for Investors - summarizes the preceding four sessions.

The 4th Webinar in the series of five assembles experts in Environmental issues related to social license to operate for mines. Over the course of 90 minutes the panel discussion will identify and introduce topics of importance which are faced by mining companies, mineral property developers and explorationists today.

The ESG#4 Panel consists of the following topics and experts:

Larry Cope is an experienced Principal Hydrogeologist with demonstrated success consulting to the mining industry. He is skilled in analysis of aquifer hydraulics, mine water management, surface water and groundwater data collection and analysis, and water supply. Strong technical professional with a M.Sc. in Hydrogeology from Colorado State University.

Anne Williamson, Vice President Global Sustainability, leads sustainability efforts for the Wood consulting business. Her focus is creating sustainable value for customers, employees, investors, and communities through embedding sustainability in how the business works and delivers solutions. Anne has led environmental and sustainability aspects of mining projects in all phases, implementing technically, socially, and financially sound approaches. Her experience with permitting and sustainability spans the mining, power, energy transportation, and manufacturing sectors. Anne currently serves on the Society for Mining, Metallurgy, and Exploration board of directors and is a member of the International Society for Sustainability Professionals.

Patrick Williamson. Patrick will provide his perspective on industry best practices for environmental management, the environmental baseline studies required for different stages of mine development, and the operational requirements for characterizing and managing waste rock, tailings and water at mining projects.

Bio: Patrick Williamson has over three decades of experience in managing geochemical and hydrogeologic investigations for mining projects, including water balances, water resource evaluation and development, waste rock characterization, mine dewatering, and permitting studies for due diligence, Preliminary Economic Assessments, Feasibility Studies, operations, and closure. He is an experienced project manager/principal with a technical focus on mine waste geochemistry/hydrogeology and extensive experience in the mining sector in Mexico and Latin America. Prior to joining INTERA, Patrick established and managed two hydrogeology/ environmental practices in Mexico, where he developed business offerings for mine hydrogeology, geochemistry and social license for water and mining. Patrick has spoken extensively on the topic of best practices for environmental management for mining at conference throughout Latin America.

Questions and Answers

NOTE: The questions were answered verbally during the Webinar and can be accessed in the recording.

Questions

Marco Carrasco: Dear Anne, thanks and very good presentation, please a question. Is there any relation between ESG and The Sustainable Development Goals of United Nations?

Roger Newell: How do ESG topics relate to Equator Principles?

Garrett Bell: How do you pitch this approach to ESG to clients and colleagues who are not familiar with it? Is there a Wood fact sheet?

Garrett Bell: Thanks, great responses!!

Nathan Hagelin: In the private sector, it may be straightforward to apply ESG to operating facilities where compliance is well in hand and steps are underway to reduce waste, energy consumption, water use. But how do we translate ESG principles into cost centers, like remediation departments. How do we propel and measure the return on investment for sustainable and resilient remediation through the project lifecycle such that the ESG value can be realized by investors?

Mary Little: Do you feel the CIM and NI 43-101 reporting standards are adequate for junior exploration companies and reporting mining companies listed in Canada. What additional factors are important or recommended?

Thanks for the great presentations.

Comments

From Douglas Peters: Need to also distinguish between natural background and man-made inputs. Given the geological terrane and mineralization, the Rio Tinto almost certainly was "red" before humans even occupied the area. The Romans just increased it by exposing the mineralization and opening air inflow to the rock mass.

From Priscilla Nelson : There is to be a webinar on "ACCELERATING ESG AND SDG PRACTICES IN MINING COMPANIES & TERRITORIES" 28 April by SDSN - register at

https://us02web.zoom.us/webinar/register/WN_KN0Y1j2wTPeYtNx3rqD_FA

The webinar: This first event in the series will explore how the ESG and SDG agendas can be aligned to accelerate improved environmental, social, and governance outcomes in mining territories.