INSTITUTO DE INGENIEROS DE MINAS DEL PERÚ

proEXPLO2021 Bicentennial Year

VIRTUAL SEMINARS - "TOWARDS PROEXPLO 2021"

STRUCTURAL GEOLOGY APPLIED TO THE EXPLORATION OF MINERAL DEPOSITS

Tuesday 30 March, 2021

From 6:00 am. to 9:00 pm.

Language: Spanish (simultaneous interpreting)

ROLE OF TECTONICS IN RENEWING PARADIGMS IN ANDEAN EXPLORATION

Metal resources are more crucial than ever in current global energy transition efforts, especially for the inevitable development of green technologies, such as electromobility. It has raised an urgent challenge to exploration companies addressing the global supply requirements of metals in the coming years, which, in some cases, can reach estimations of up to 150% times higher than the current production. After at least half a century of continuous exploration in the Central Andes, there has been no sustained increase in the metal endowments in agreement with the future significant requirement of metals with a real risk of supply in the next decade. To tackle this issue, it is necessary to trigger changes in the traditional geological paradigms. In this context, applied tectonics play a fundamental role as a key tool to push toward new frontiers and renew paradigms in mineral exploration. This lecture is carried out by a geoscientist that is part of an applied research and consultancy team that share this superior goal. Here I will expose some tectonics results focused on the re-evaluation of the use of the traditional idea of continuity of architecture of the Pit-parallel metallogenic belts as a prospecting vector. Additionally, it will be discussed the relevance of identi¬fication and quantifi¬cation of metallic by-products, such as RREE, in the future mining business, being them metals that are frequently contained in most copper and nickel Andean deposits.

INSTRUCTOR

Daniel A. Carrizo Santiago

Daniel Carrizo has 13 years of experience conducting consulting projects in the mining industry and scientifi¬c studies of geology and geophysics applied to Andean tectonics. Its primary skills lie in developing structural and tectono-metallogenic models for different mineralized systems, mainly in Chile and in mining projects in Peru, Mexico, and Russia. He has produced more than 30 applied projects that have generated fundamental changes in the strategy, processes, and results of the structural characterization in mining. He has published 26 papers in main journals (Web of Science), with an impact factor of H19, he was director of study groups with international scientific recognition and collaboration, and undergraduate and graduate teaching development at different universities in Chile.

Currently, he develops applied tectonics consulting projects at GeoEkun SpA – Chile (www.geoekun.com). He worked ten years as a senior researcher at the Advanced Mining Technology Center (AMTC) at the University of Chile.

He is a geologist from the Universidad Católica del Norte, Antofagasta, Chile, and has a PhD in Geology from the same university. In addition, he had post-doctoral positions at the Institut de Physique du Globe in Paris, France, and at the Department of Geophysics at the University of Chile.

LINEAMENTS AND MINERAL DEPOSITS: THE EVIDENCE FROM PERU AND CENTRAL BRITAIN

INSTRUCTOR

Leslie Oldham

Leslie (Les) Oldham, British, graduated from the Royal School of Mines at Imperial College London in 1969 with a BSc in Mining Geology. His early years were spent looking for Irish-style Zn/Pb deposits in Northern England, and structural geology models developed there subsequently were applied successfully in the oil industry. Invited by mineral trader Marc Rich (now Glencore) to Peru in 1987 at the onset of its entry into the Peruvian mining industry, he found a large quantity of Zn/Pb exploration opportunities from which he has not disengaged himself yet. He discovered that structural ideas seeded in Northern England apply equally in Peru.

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