

2024

1.24 (wed.) 12:10 ~ 12:50

12:10-12:15

◆ Introduction

12:15-12:40

◆ Seminar  
(Presentation)

12:40-12:50

◆ Q&amp;A

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# Resource Processing Situation in Mining Country: Resource situation and strategy in Australia, Chile

Chair: Assoc. Prof. Fumihiko YOKOTA (Research Promotion Coordinator of Q-AOS)

**Key Words**

Resource development

Australia

Chile

Copper mineral processing

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Hajime Miki is a Associate Professor at Kyushu University, earth resource engineering department. He received a Master and Ph.D. on resource engineering at Hokkaido University on 2002. Then He worked as postdoctoral fellow in Murdoch University in Western australia, Perth for 9 years followed by North Catolic University in Antofagasta, Chile for 1 year. During these period copper processing research has been carried out and have experience of totally different culture from Japan, also mining situation has learned. From 2013 working in Kyushu University as assistant Professor with Green Asia Education Program then work as Associate Professor with cooperative program, which is joint degree program of Kyushu University and Hokkaido University. In Kyushu University, various students from Asia, Africa and South America students and Japanese students are subjected to education program. About his research, during his whole research period copper flotation, hydrometallurgy has been carried out then these reaction has been estimated with electrochemical measurements.

Through the experiences of the presenters, we will present the current situation of mineral resource development in Australia and Chile, which are known as resource-rich countries, the history so far, and the basic strategies for the future. Unlike Japan, these countries have access to a wide variety of mineral resources, so it is important to increase the value of the obtained mineral resources as much as possible before exporting. By combining the mineral resources obtained and devising processing methods, we are able to obtain greater profits by increasing the level of employment and technological development in the country. In recent years, due to growing awareness of climate change and other issues, Australia has been undergoing major changes, especially in converting coal to hydrogen and ammonia, and in Chile, the development of lithium from salt lakes has shifted from copper to focusing on the development of lithium from salt lakes. In addition to these explanations, we will also explain the research that the presenters have conducted on copper mineral treatment.