



pro**EXPLO**2025

**SHORT COURSE pre-congress**

# DISTAL FOOTPRINTS OF CARBONATE-HOSTED HYDROTHERMAL DEPOSITS: THEORY AND PRACTICAL EXPLORATION TOOLS



SATURDAY  
3<sup>RD</sup> MAY, 2025



FROM 09:00  
TO 17:00 HOURS



ENGLISH (SIMULTANEOUS  
TRANSLATION)



ON-SITE  
(IIMP)

## Abstract



Carbonate rocks are an important host for a variety of ore deposit types, including porphyry-skarn, carbonate-replacement deposits, Carlin-type gold deposits, Pb-Zn-Ag SEDEX deposits and Mississippi-Valley type deposits, and can be important host rocks in many ore-forming environments. However, the high-reactivity of carbonate rocks means that they often do not display large visible alteration footprints which are common in other rock types such as volcanic or intrusive rocks. However, carbonate-hosted deposits typically do have large, cryptic alteration haloes which can be recognised and navigated to inform mineral exploration. In this course, attendees will be introduced to a variety of practical approaches for recognising hydrothermal alteration with carbonate rocks, including features in outcrop and hand specimen, ultraviolet fluorescence imaging, litho-geochemistry and stable carbon and oxygen isotopes. A series of case studies will be presented from a number of different deposit types and exercises will be undertaken. The course emphasises practical integration of different datasets to provide new insights for mineral explorers including what lithological and structural features controlled hydrothermal fluid flow, and how to vector towards mineralization.



## Instructor

**Shaun Barker** is the director of the Mineral Deposit Research Unit, within the Department of Earth, Ocean and Atmospheric Sciences at the University of British Columbia in Vancouver, Canada.

Shaun has a background of geochemistry, mineralogy and structural geology. Shaun is involved in a diverse range of research projects and has worked on a variety of gold and copper deposits in collaboration with the minerals industry, and in particular works on ore body knowledge and innovative methods for mineral exploration.



**Shaun Barker**

MDRU  
(Mineral Deposit Research Unit)

## Investment

| CATEGORIES       | RATES US\$ INC. IGV |                    |
|------------------|---------------------|--------------------|
|                  | Until<br>09.03.2025 | From<br>10.03.2025 |
| Non - Associates | 450                 | 500                |
| Associetes       | 350                 | 400                |
| Students         | 150                 | 170                |
| Teachers         | 170                 | 200                |

- \* The IIMP Active Member must be up to date with their 2025 dues.
- \* The student and the teacher must present their respective university transcripts.
- \* Includes digital certificate.

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