



## Commission on Ore Mineralogy

### International Mineralogical Association

IMA-COM, Malte Junge, Theresienstr. 41, 80333 München, GERMANY

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### **Annual report 2023-2024 of the IMA-COMMISSION ON ORE MINERALOGY**

Dear sir or madam,

This report covers aspects of IMA-COM activities since July 2022. The IMA-COM is currently in the process of rehabilitation after a longer period of inactivity.

#### **Officials of the commission**

The new chair PD Dr. Malte Junge ([junge@snsb.de](mailto:junge@snsb.de)) was accepted at the IMA general assembly held during the IMA meeting in Lyon, France July 2022. The secretary Prof. Hassan Helmy is still acting as a secretary following his approval on a previous IMA meeting. However, he after 2024, he will no longer act as a secretary. The commission is very thankful for all his contributions during the last years. The COM will elect a new secretary as soon as possible. Dr. Jakub Ciałęła was elected as a vice-chair by the commission itself. The official nomination of Dr. Jakub Ciałęła will be associated with the next official IMA meeting.

#### **Meetings of the commission**

The group meets online on a monthly basis. These meetings include for example: scientific exchange and presentations by group members, discussions about outreach activities, submissions of mutual sessions and conferences, special issues. During the IMA meeting in Lyon, France July 2022 we had our official meeting.

## **New national representatives**

One essential task at the beginning of the new formation of the COM was to renew the list of national representative. Except Egypt with Prof. Hassan M. Helmy and Prof. Kamen Bogdanov all national representative are new members. Prof. Ferenc Molnar is now the new national representative of Hungary. He acted previously as the Finnish representative. Additional to the list below, there are also guests joining our monthly meetings. These are in process of an official nomination as national representatives: Yamila Cajal Contreras (Australia) and Jacob Kaavera (Botswana).

The following new national representatives are:

**Argentina:** Dr. María Florencia Márquez-Zavalía and Natalia Maffini

**Austria:** Dr. Phillip Gopon

**Belgium:** Prof. Stijn Dewaele

**Bulgaria:** Prof. Kamen Bogdanov

**Czech Republic:** Dr. Marek Tuhý

**Finland:** Tapio Soukka

**France:** Dr. Guillaume Estrade and Dr. Stéfano Salvi

**Germany:** PD Dr. Malte Junge

**Italy:** Prof. Nicola Mondillo

**Poland:** Dr. Jakub Ciężela

**Portugal:** Dr. Ana Jesus

**South Africa:** Dr. Igor Tonzetic

**Spain:** Prof Ruben Piña

**Turkey:** Prof. Dr. Gülcan Bozkaya

**USA:** Dr. Simon Kocher

## **Definition of major purposes of the commission**

The major objectives of the COM are: 1) scientific exchange, 2) providing access to analytical facilities, 3) chairing session on national and international conferences, 4) acting as guest editors for special issues in national and international journals, 5) public outreach activities, 6) designing teaching materials for schoolteachers and 7) offering workshops. The commission will focus on these major topics in the near future.

## **Outreach-activities and social media: Ore Mineral of the year**

We defined one important task of the IMA-COM in increasing the public awareness of ore mineralogy. Importantly, this should also include teaching activities in schools as geoscientific contents are generally less discussed in schools worldwide. For this purpose, we invited experts of the field to discuss and exchange ideas during our meetings. Since 2023, we started the initiative of the ore mineral of the year. Each year an ore mineral is elected and presented in our own Instagram and Mastodon accounts. Regular posts provide scientific information, aesthetic pictures or fun facts about the ore mineral of the year. The ore mineral of the year 2023 was pyrite. In 2024, sphalerite was elected as the ore mineral of the year. The COM members translated the English version of a poster in their languages. Posters are distributed among the member countries. We are already aware of several small exhibitions taking place about sphalerite. The newly created LinkedIn page will be used to advertise all activities.

## Scientific sessions

The commission was involved in chairing the following ore-related sessions on national and international conferences (COM members in bold):

- 1) Goldschmidt 2022, Hawaii/USA, 10 - 15 July 2022  
**Jakub Ciałęza, Malte Junge**  
“Metals, volatiles, and ore formation in various tectonic settings”
- 2) IMA2022 Lyon, France, 18 – 22 July 2022  
**Jakub Ciałęza, Malte Junge**  
“Trace element in ore minerals”
- 3) GeoMinKöln 11–15 September 2022  
**Phillip Gopon, Bastian Joachim-Mrosko, Dominik Sorger**  
The role of fluids in metamorphic and metasomatic reactions
- 4) SGI-SIMP Conference GEOSCIENCES FOR A SUSTAINABLE FUTURE, Torino, 19-21 September 2022  
Ore deposits for a green future  
**Mondillo N., Santoro L., Moroni M., Naitza S., Putzolu F.,**
- 5) Petrology group of the mineralogical society of Poland 20-23 October 2022  
**Jakub Ciałęza**
- 6) International Platinum Symposium, Cardiff, United Kingdom, 4 – 7 July 2023  
**Malte Junge, Eduardo Mansur, Jose-Maria Gonzales-Jimenez**  
„Platinum mineralogy“
- 7) IMA COM patronage on the entire conference: <https://ptmin2023.ing.pan.pl/sponsors-and-partners.html>. The ‘Oceanic lithosphere: rocks, minerals, and critical resources’  
**Jakub Ciałęza**
- 8) EMC-2024, Dublin, Ireland, 18 – 23 August 2024, Applied Mineralogy – Critical metals: Micro- and nano-mineralogy of critical metals), **Malte Junge, Eduardo Mansur, Jose-Maria Gonzales-Jimenez**
- 9) EMC-2024, Dublin, Ireland, 18 – 23 August 2024, Applied Mineralogy – Primary ore deposits: Understanding the geology and formation of ore deposits – new constraints on the enrichment process of metals), **Malte Junge, Max Korges, Philipp Rieger, Hilde Koch**

## Workshops

The commission organized the following workshops:

- 1) Ore Microscopy, Sudbury 2023 GAC-MAC-SGA Joint Annual Meeting  
**Simon Kocher, Tobias Fusswinkel, 2 days**

## Special issues

Members of COM act as guest editors at a special issue:

- 1) Ore Formation and Critical Metal Deposits: Geological Contribution to the Clean Energy Transition  
Frontiers in Earth Sciences  
**Jakub Ciałęza, Malte Junge, Hassan Helmy**
- 2) Special issue on the Congress of Mineralogy and Metalogeny  
Revista de la Asociación Geológica Argentina (Journal of the Argentine Geological Association), volume 80 (4)  
**Dra. María Florencia Márquez-Zavalía**

## New logo of COM

In order to support the visibility of COM, we designed a new logo. This logo will be used in letters and presentations of the COM.



*Figure 1: New logo of the commission since 2023.*

## Cooperation with other mineralogical groups

We started a connection with the Applied Mineralogy Group (AMG) of the Mineralogical Society of Great Britain and Ireland.

Kind regards

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PD Dr- Malte Junge, chair

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### IMA-COM Officials

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