

## **Activity Report of the Commission on Physics of Minerals (CPM) (2022-2024)**

August 9, 2024

Paola Comodi<sup>1</sup>, Jun Tsuchiya<sup>2</sup>, Sujoy Ghosh<sup>3</sup>

<sup>1</sup>Department of Physics and Geology, University of Perugia, I-06123 Perugia, Italy

<sup>2</sup>Geodynamics Research Center, Ehime University, Matsuyama, Ehime 790-8577 Japan

<sup>3</sup>Department of Geology and Geophysics, Indian Institute of Technology, Kharagpur, India

### **1. Research meetings sponsored by CPM (name of meeting/place/date/responsible or reporting person)**

JpGU 2022 (Chiba, Japan/22-27 May, 2022/Tsuchiya, Ohtani)

IMA 2022 (Lyon France/18-22 July, 2022/Comodi)

AfLS4 and AfPS 2022 (Johannesburg, South Africa and Virtual/14-18 November, 2022/Ohtani)

JpGU 2023 (Chiba, Japan/ 21-26 May, 2023/Tsuchiya, Ohtani)

EMPG XVIII (Milan, Italy/12-15 June 2023/Comodi)

AfLS and AfPS 2023 (Johannesburg, South Africa and Virtual/13-17 November, 2023/Ohtani, Comodi, Tsuchiya)

JpGU 2024 (Chiba, Japan/ 26-31 May, 2024/Tsuchiya, Ohtani)

European Mineralogical Conference 2024 (Dublin, Ireland/ 18-23 August 2024 Conveners: Comodi, Tsuchiya) Title session: Recent challenges and advances in theoretical and experimental mineral physics. Key Note Tiziana Boffa Ballarín BGI Germany

### **2. Publications**

The CPM activity report (2018-2022) was published in the Physics and Chemistry of Minerals (<https://doi.org/10.1007/s00269-024-01268-7>).

It should be published regularly in the future.

We also need to plan the special issue/volume/publication for promoting mineral physics as a part of our CPM activity.

### **3. CPM Committee Members**

Chair: Paola Comodi

Vice-Chair: Jun Tsuchiya

Secretary: Sujoy Ghosh

Subcommittees

(1) Earth Deep Interior (Comodi, Ghosh, Inoue, Reynard, Bass, Ohtani, Zhang)

(2) Spectroscopy, diffraction and new instrumentations in mineral physics (Di Benedetto, Dubrovinsky, Amthauer, Ohfuji, Cardon, de Villiers)

(3) Glass and melt studies and their applications to geosciences and industry (Neuville, Henderson, Moretti, Lee, Behren)

(4) Theoretical and computational mineral physics (Prencipe, Karki, Tsuchiya)

It is necessary to appoint a chairperson for the subcommittees.

The proportion of female members remains low (14%). In terms of regional diversity, there were new participants from China (Dr. Li Zhang) and from South Africa (prof. Johan de Villiers). The absence of a representative from South America remains a problem.

#### **4. Future activity plan**

We need to plan CPM activity for IMA 2026 Nanjing.

We are planning to hold a CPM web-meeting in October.