

# Commission on Physics of Minerals (CPM) Annual Report 2025

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## 1. Research Meetings Sponsored by CPM

(name of meeting/place/date/responsible or reporting person)

- **Japan Geoscience Union (JpGU) meeting 2024**  
Chiba, Japan / 26–31 May 2024 / Tsuchiya, Ohtani
- **European Mineralogical Conference (EMC) 2024**  
Dublin, Ireland / 18–23 August 2024 / Comodi, Tsuchiya
- **African Light Source and African Physical Society Joint Meeting (AfLS–2024 and AfPS2024)**  
Online/ 18–22 November 2024 / Ghosh, Comodi
- **Japan Geoscience Union (JpGU) meeting 2025**  
Chiba, Japan / 25–30 May 2025 / Tsuchiya, Ohtani
- **The 19th International Symposium of Experimental Mineralogy, Petrology and Geochemistry (EMPG XIX)**  
Orleans, France / 16–19 June 2025 / Comodi

## 2. 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 (Neuvville, Henderson, Moretti, Lee, Behren)
4. Theoretical and Computational Mineral Physics (Prencipe, Karki, Tsuchiya)

A chairperson for each subcommittee is to be appointed. The proportion of female members remains low (approximately 14%). Regarding regional diversity, new members joined from China (Dr. Li Zhang) and South Africa (Prof. Johan de Villiers), while the absence of a representative from South America remains an issue to be addressed.

### 3. IMA 2026 Session Proposals Involving CPM Members

The **IMA 2026 General Meeting** will be held in Nanjing, China, in August 2026. Several CPM members are involved as conveners in the following session proposals related to the physics of minerals:

1. **Mineral Physics: A Key to Understanding the Interior of Earth and Planets**  
Conveners: Paola Comodi, Jun Tsuchiya, Shaunna Morrison
2. **Computational and Theoretical Studies of Earth and Planetary Materials**  
Conveners: Jun Tsuchiya, Bijaya Karki, Zhongqing Wu, Yunguo Li, Razvan Caracas
3. **Fluids and Melts in the Mantle: Character, Generation, Transport, and Consequences**  
Conveners: Xiaozhi Yang, Charles Le Losq, Eiji Ohtani, Jun Tsuchiya, Jannick Ingrin, Naoko Takahashi, Long Li, Sylvie Demouchy, Xia Qunke
4. **Earth and Planetary Materials Informatics**  
Conveners: Robert M. Hazen, Sergey Krivovichev, Yan Li, Shaunna Morrison, Anirudh Prabhu, Hans-Peter Schertl, Jun Tsuchiya

### 4. Future Activity Plans

- Participation in the IMA 2026 meeting (Nanjing)
- Renewal of commission membership, including:
  - Establishing fixed terms for members
  - Creating a “Past Chair” position to facilitate handover of responsibilities
- Organization of an online lecture series, including:
  - Preparing and uploading lecture videos
  - Creating a mailing list (cpm-announce@mineralogy-ima.org) for announcements and registration
- Development of a new CPM website