

International Mineralogical Association
COMMISSION ON NEW MINERALS, NOMENCLATURE AND CLASSIFICATION

2023-2024 IMA-CNMNC REPORT

August 08, 2024

The Commission on New Minerals, Nomenclature and Classification (CNMNC) of the International Mineralogical Association (IMA) was formed in July 2006 by a merger between the Commission on New Minerals and Mineral Names (established in 1959) and the Commission on Classification of Minerals.

1. OVERALL OBJECTIVE

The CNMNC oversees systematic mineralogy. Its main role is to ensure that strict procedures are followed before new mineral species can be established, and before redefinitions/discreditations and changes to nomenclature can be applied. The CNMNC also coordinates the procedures for classification of minerals and groups.

2. ORGANISATION

Officers

Chairman: Ferdinando Bosi (Rome, Italy), since 2023

Vice-Chairmen: Frédéric Hatert (Liège, Belgium)
Marco Pasero (Pisa, Italy)

Secretary: Stuart Mills (Richardson, USA)

Voting members

The full membership of CNMNC is given in §6 (below).

New members for *Canada, Croatia, Hungary, India, Italy, New Zealand, Romania, Russia, Switzerland*, and *Ukraine* joined to the CNMNC between November 2022 - April 2024.

Silent members

Members from *New Zealand* and *Ukraine* have never voted. This absence is understandable for the Ukrainian member given the current international situation.

On August 4, 2024, the representative of Norway on the CNMNC was designated as an inactive member due to their lack of voting activity since July 2021.

Inactive Countries

Denmark was unable to propose any representative for the CNMNC.

Greece proposed a representative on January 25, 2023, but has not confirmed its willingness to join the CNMNC. Several reminders were sent by the Chairman, but no reply has been received to date.

Norway's representative informed us that he is unable to participate in CNMNC activities due to his various commitments. Currently, there appears to be no replacement for him in the CNMNC.

Uzbekistan informed us on January 11, 2023, that they would propose a representative for the CNMNC. No message has been received to date

Website

There has been a change of host from the National Museum of Nature and Science, Tokyo (<http://cnmnc.main.jp/>) to the University of Trieste (<http://cnmnc.units.it>) in Jan. 2023.

Since the current CNMNC website is insecure and outdated for browsing on modern electronic devices, a new website will be available soon.

3. ACTIVITIES (2023-2024)

The CNMNC partitions its workload amongst the four officers. The Chairman prepares the new mineral proposals, the 1st Vice-Chairman (F. Hatert) handles proposed changes to existing nomenclature (discreditations and redefinitions), and the 2nd Vice-Chairman (M. Pasero) is responsible for the “IMA list of mineral species” and the CNMNC Newsletter. The Secretary handles classification issues as well as proposals dealing with the nomenclature of mineral groups. The 30 voting Members of the CNMNC represent national mineralogical organizations affiliated with the IMA (30 active and 4 nonactive).

The members evaluate all proposals (new minerals, changes in existing minerals, mineral groups) and cast their votes on a monthly basis for the new mineral proposals and as they come for the other proposals. The distribution of proposals and the subsequent rounds of comments and voting are carried out solely via the internet. CNMNC members are informed monthly about the results of proposal voting through memoranda.

New Minerals

1. In 2023, 143 proposals for new minerals were handled, of which 113 were approved.
2. In 2024, as of today, 70 new mineral proposals have been distributed to the CNMNC members. Of these, 31 have been approved, while 32 are still under evaluation.

Redefinitions and discreditations

1. 23-A: Discreditation of platarsite: A S-rich variety of sperrylite (Jan. 2023)
2. 23-D: Redefinition of formula for benyacarite (Feb. 2023)
3. 23-E: Redefinition of avdeevite (Feb. 2023)
4. 23-F: Minasgeraisite-(Y) discredited as an ordered intermediate member between datolite and hingganite-(Y) (March 2023)
5. 23-G: Redefinition of amorphous georgeite as $[\text{Cu}(\text{OH})_{2-x}\text{H}_2\text{O}]_x[\text{CO}_3]_{x/2}$ (August 2023)
6. 23-H: Redefinition of Testibiopalladite, PdSbTe (August 2023)
7. 24-A: Definition of a neotype for elbaite (July 2024)

Nomenclature of mineral groups and classification

1. Palmierite supergroup (2023)
2. Minium group (2023)
3. Paulkerrite group (2023)
4. Changes to the cerite-group nomenclature (2023)
5. Dongchuanite group (2023)
6. Nolanite supergroup (2024)
7. Kröhnkite supergroup (2024)
8. Ancylite supergroup (2024)

Proposals currently under evaluation

1. Beryl supergroup
2. Pyrochlore supergroup
3. Aeschentyite group
4. Mass discreditation of ten Carmel minerals
5. Definition of a neotype for chukhrovite-(Ce)
6. Definition of a neotype for Kaolinite
7. Redefinition of the metaschoderite formula

Mineral symbols

Updated list of IMA-CNMNC mineral symbols is available in the CNMNC website. Mineral symbol is required in all new minerals.

Newsletter

The IMA-CNMNC newsletter continues to be published in *European Journal of Mineralogy* and *Mineralogical Magazine* (six issues per year) and it is an important channel to make the CNMNC activities and decisions visible to the scientific community. The newsletter continues to be an important document to professional and amateur mineralogists alike.

New approved guidelines

2023: CNMNC guidelines for the nomenclature of polymorphs and polysomes (Mineral Mag, 2023, 87, 225–232).

IMA list of minerals

The official IMA-CNMNC List of Minerals continues to be updated every two months and is available at the IMA-CNMNC website (<http://cnmnc.units.it>).

IMA list of unmanned minerals

The official updated lists of unnamed minerals (Jan. 2023) are available at the IMA-CNMNC website (<http://cnmnc.units.it>).

Mineral of year

Recommended every year to IMA.

Business meetings

Usually, the CNMNC holds its business meetings every two years, when its members participate in IMA General Meetings and Mineralogy & Museums Conferences.

The next CNMNC meeting will be held during the European Mineralogical Conference (EMC) in Dublin, Ireland (18-23 August 2024).

5. WORKPLAN FOR 2024-2025

It is anticipated that the number of new mineral proposals, nomenclature revisions and discreditations will continue to be very high (about 150 each year).

There will be a CNMNC session, entitled “New Minerals, nomenclature, and classification”, at the 2024 EMC in Dublin (18-23 August 2024).

6. COMMISSION MEMBERS (as of 6 August 2024)

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