



International Mineralogical Association
COMMISSION ON NEW MINERALS, NOMENCLATURE AND CLASSIFICATION

2024-2025 IMA-CNMNC REPORT

October 06, 2025

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)
Vice-Chairmen: Frédéric Hatert (Liège, Belgium) and 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* (Art. 12d of the IMA const.), *China*, *Slovakia* (Art. 12d of the IMA const.), *Spain*, *Switzerland* (Art. 12d of the IMA const.), *Sweden*, *United Kingdom*, and *USA* (Art. 12d of the IMA const.) joined to the CNMNC between August 2024-2025.

Silent members

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

The member from *Austria* (Hans-Peter Bojar) has not voted since 2023. Despite repeated attempts by the Chairman to encourage his participation in the work of the CNMNC, there has been no positive response. On 26 June 2025, the Chairman also wrote to the officers of the Mineralogical Association of Austria (Vera M.F. Hammer, Frank Melcher, Tamara Đorđević, and Biljana Krüger), but no reply was ever received.

Over the past year, the member from *India* has not been voting due to his recent diplomatic role at the Embassy of India in Vienna (October 2024), where he represents his country at the United Nations organizations.

Inactive Countries

Denmark, *Greece*, *Norway* and *Uzbekistan* were unable to propose any representative for the CNMNC (see also 2023-2024 IMA-CNMNC report).

Website

To provide increasingly comprehensive information, the CNMNC website (<http://cnmnc.units.it>) is continuously updated with CNMNC-newsletters, CNMNC contributions to Elements, and various news items. In 2025, a new page titled “Mineral Group”



was added. The CNMNC expresses its gratitude to the webmaster, Cristiano Landucci, and to the University of Trieste, which hosts the website.

3. ACTIVITIES (2024-2025)

The CNMNC distributes its workload among four officers. The Chairman coordinates the evaluation of new mineral proposals; the 1st Vice-Chairman (F. Hatert) is responsible for proposed changes to existing nomenclature (discreditations and redefinitions) and new nomenclatures; and the 2nd Vice-Chairman (M. Pasero) oversees the IMA List of Mineral Species and the CNMNC Newsletter. The Secretary oversees proposals concerning classifications/nomenclatures. The about 30 voting Members (plus 4 nonactive) of the CNMNC represent national mineralogical organizations affiliated with the IMA. 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 2024, 110 proposals for new minerals were handled, of which 89 were approved.
2. In 2025, as of today, 96 new mineral proposals have been distributed to the CNMNC members. Of these, 46 have been approved, while 35 are still under evaluation.

Mineral redefinitions and discreditations

1. IMA 24-C: "Definition of a neotype for chukhrovite-(Ce)"
2. IMA 24-D: kaolinite neotype proposal.
3. IMA 24-E: proposal to change the formula of metaschoderite back to $\text{Al}_2(\text{PO}_4)(\text{VO}_4)\cdot 6\text{H}_2\text{O}$.
4. IMA 24-F: definition of neotype material for simonellite, $\text{C}_{19}\text{H}_{24}$.
5. IMA 134-SM25: discreditations of niobaeschynite-(Ce) and niobaeschynite-(Y).
6. IMA 137-SM25: discreditations of avdeevite and beryllocordierite-Na.

Nomenclature of mineral groups and classification

1. Revised Nolanite supergroup (2024).
2. Establishment of the Svornostite group and renaming of svornostite and oldsite (2025).
3. Nomenclature scheme for the Aeschynite group (2025).
4. Nomenclature scheme for the Monazite supergroup (2025).
5. Nomenclature scheme for Jeppeite group (2025).
6. Nomenclature scheme for Babingtonite group (2025).
7. Nomenclature scheme for Beryl supergroup (2025).

Proposals currently under evaluation

1. Nomenclature of the Pyrochlore supergroup minerals.
2. Nomenclature of the Vesuvianite supergroup minerals.
3. Proposal for a classification of the minerals of the Milarite supergroup.
4. Establishment and classification of Wumuite supergroup
5. Proposal for the classification of the Kahlenbergite group
6. Proposal for the classification of the Nambulite group
7. Proposal to approve ferropseudobrookite as a mineral species, revise the end-member of armalcolite, and establish the pseudobrookite group.
8. Discreditation of the name phosphoinnelite.



9. Stilpnomelane: composition range, franklinphilite and ekmanite discredited.
10. The formal discreditation of ‘eosite’ and ‘colleite’, terms used to describe historic specimens from the Leadhills–Wanlockhead mining district in Scotland.
11. Discreditation of the name phosphoinnelite.

Mineral symbols

The updated list of IMA–CNMNC mineral symbols (June 2025) is now available on the CNMNC website. A mineral symbol is required for all newly approved minerals. The Commission extends its sincere gratitude to Professor Laurence Warr for his valuable assistance to the CNMNC in this work.

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.

According to the metrics of the respective journals in which the newsletters are published, each newsletter receives more than 1,000 views within the first year after publication. IMA–CNMNC Newsletter 71 (February 2023) is the third most downloaded article of all time in the *European Journal of Mineralogy*, with 5,166 views.

New approved guidelines

2024: Voting majority for CNMNC proposals on new minerals, nomenclature changes, and mineral groups: The CNMNC has established a 75% positive vote threshold for the approval of new minerals, changes in nomenclature, and the formation of mineral groups/supergroups, with the Chair (or the officer in charge) retaining the right to suspend voting based on member feedback (CNMNC – Newsletter 83).

2025: The IMA–CNMNC guidelines for minerals of uncertain origin have been revised following the 2024 report of the IMA Mediation Committee. A paper presenting these updated guidelines has been accepted for publication in the *European Journal of Mineralogy*.

Moreover, the CNMNC has published a short contribution entitled “Minerals and IMA–CNMNC: The contribution of volunteer scientists to the community” (*Elements*, April 2024, p. 141), and another one entitled “Expanding the vocabulary of minerals: homogeneity, origin, and validation” has been submitted to *Elements*.

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>).

The CNMNC (Marco Pasero) is currently working on updating the representation of water molecules in mineral chemical formulae in the IMA–CNMNC List of Minerals. Water will be expressed as “(H₂O)_n” when the oxygen atoms are part of a coordination polyhedron (i.e., bonded to another constituent in addition to hydrogen), and as “·n(H₂O)” in all other cases. All newly approved proposals involving water will follow this representation.

IMA list of unmanned minerals

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

Mineral of year

Recommended every year to IMA.



Business meetings

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

A CNMNC meeting will be proposed to be held during the IMA2026, in Nanjing, China (20-24 August 2026).

5. WORKPLAN FOR 2025-2026

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

Following the CNMNC session entitled “New Minerals, Nomenclature and Classification” held at the EMC in Dublin (18–23 August 2024), a new CNMNC session entitled “Advances in Crystal Chemistry and Mineral Systematics” has been proposed for the IMA2026 meeting in Nanjing, China (20–24 August 2026).

6. COMMISSION MEMBERS (as of October 2025)

Officers

Ferdinando Bosi, Chairman – Department of Earth Sciences, Sapienza University of Rome, Italy
Frédéric Hatert, Vice-Chairman – Laboratoire de Minéralogie, Université de Liège, Belgium
Marco Pasero, Vice-Chairman – Dipartimento di Scienze della Terra, Università di Pisa, Italy
Stuart J. Mills, Secretary – Gallery of Natural Art, Richardson, TX 75083, USA

Chairmen Emeritus

Ritsuro Miyawaki – Chairman (2018–2022), Department of Geology and Paleontology, National Museum of Nature and Science, Tsukuba, Japan
Ulf Hålenius – Chairman (2014–2018), Department of Geosciences, Naturhistoriska Riksmuseet, Stockholm, Sweden
Peter (Pete) A. Williams – Chairman (2008–2014), School of Science and Health, University of Western Sydney, Penrith, NSW, Australia
Ernst A.J. Burke – Chairman (2003–2008), Haelen, Netherlands
Joel D. Grice – Chairman (1995–2002), Mineral Science Division, Canadian Museum of Nature, Ottawa, Ontario, Canada
Akira Kato – Chairman (1975–1982), Division of Mineralogy, National Museum of Nature and Science, Tsukuba, Japan

Members

Argentina: Fernando Colombo – Cátedra de Geología General, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de Córdoba, Córdoba, Argentina
Australia: Andrew G. Christy – Christy Mineralogical Consulting, Hamilton, Queensland, Australia
Austria: Hans-Peter Bojar – Abteilung Mineralogie, Universalmuseum Joanneum, Graz, Austria
Belgium: Fabrice Dal Bo – Laboratoire de Minéralogie, Université de Liège, Belgium
Brazil: Daniel Atencio – Instituto de Geociências, Universidade de São Paulo, São Paulo, Brazil
Bulgaria: Ruslan I. Kostov – Faculty of Geology and Prospecting, University of Mining and Geology "St. Ivan Rilski", Sofia, Bulgaria
Canada: Aaron J. Lussier (Art. 12(d) IMA const.) – Canadian Museum of Nature, Ottawa, Ontario, Canada. Inna Lykova – Canadian Museum of Nature, Ottawa, Ontario, Canada
Croatia: Andrea Čobić – University of Zagreb, Croatia
Czech Republic: Jiří Sejkora – National Museum Prague, Czech Republic
Egypt: Mohamed A. El-Sharkawy – Cairo University, Egypt



Finland: Ragnar Törnroos – University of Helsinki, Finland
France: Cristiano Ferraris – Muséum National d'Histoire Naturelle, Paris, France
Germany: Thomas Witzke – PANalytical B.V., Almelo, Netherlands
Hungary: Ildikó Cora – Centre for Energy Research, Budapest, Hungary
India: Pranesh Sengupta – Bhabha Atomic Research Centre, Mumbai, India
Italy: Fernando Cámara – Università degli Studi di Milano, Italy
Japan: Koichi Momma – National Museum of Nature and Science, Tsukuba, Japan
New Zealand: Michael C. Rowe – University of Auckland, New Zealand
Poland: Adam Pieczka – AGH University of Science and Technology, Kraków, Poland
Republic of China: Zhenyu Chen – Chinese Academy of Geological Sciences, Beijing, China
Republic of South Africa: Maria T. Atanasova – University of Pretoria, South Africa
Romania: Gheorghe Ilinca – University of Bucharest, Romania
Russia: Andrey A. Zolotarev – St. Petersburg State University, Russia
Slovakia: Peter Bačík (Art. 12(d) IMA const.) – Comenius University in Bratislava, Slovakia.
Martin Stevko – Slovak Academy of Sciences, Bratislava, Slovakia
Spain: Juan Jiménez Millán – University of Jaén, Spain
Sweden: Andreas Karlsson – Naturhistoriska Riksmuseet, Stockholm, Sweden
Switzerland: Georgia Cametti (Art. 12(d) IMA const.) – University of Bern, Switzerland.
Nicolas Meisser – University of Lausanne, Switzerland
Ukraine: Dariia Chernysh – M.P. Semenenko Institute of Geochemistry, Kyiv, Ukraine
United Kingdom: Mike Rumsey & Jens Najorka – Natural History Museum, London, UK
USA: Anthony R. Kampf – Natural History Museum of Los Angeles County, USA. Travis Olds
(Art. 12(d) IMA const.) – Carnegie Museum of Natural History, Pittsburgh, USA

Nobody available from: *Denmark, Greece, Norway, and Uzbekistan.*

Best regards,

Chairman CNMNC