

COMMISSION ON NEW MINERALS, NOMENCLATURE AND CLASSIFICATION

2016 REPORT

AUGUST 8, 2016

1. OVERALL OBJECTIVES

This commission (CNMNC) was established in 1959 (under the former title of Commission on New Minerals and Mineral Names, or CNMMN) to deal with all nomenclature matters in mineralogy. Its main roles are to ensure that strict procedures are followed before new mineral species can be established and before redefinitions and changes to nomenclature can be applied. The CNMNC also coordinates the procedures for classification of minerals and groups.

2. ORGANISATION

Officers

Chairman: Ulf Hålenius (Stockholm, Sweden)
Vice-Chairmen: Frédéric Hatert (Liège, Belgium); Marco Pasero (Pisa, Italy).
Secretary: Stuart Mills (Melbourne, Australia)

Voting members

The full membership of CNMNC is given in §5 (below).

New members for Canada (2016), Germany (2016), Slovak Republic (2015), South Africa (2015) and UK (2016).

3. ACTIVITIES (2015–July 2016)

The CNMNC partitions its workload amongst the four officers. The Chairman prepares the new mineral proposals, the Vice-Chairmen handle proposed changes to existing nomenclature (discreditations and redefinitions) and classification issues (including groups), and the Secretary coordinates the subcommittees created to examine the nomenclature of mineral groups. The 34 voting Members of the CNMNC represent national mineralogical organisations affiliated with the IMA.

The members evaluate all nomenclature 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.

The costs of Officers' and voting Members' emailing and internet time are borne by their respective institutions.

New Minerals

1. In 2015, 129 proposals for new minerals were handled, of which 121 were approved.
2. In 2016, by mid-July, 74 new mineral proposals have been handled. All 34 proposals for which voting has been completed (30 June 2016) have been approved. One proposal was withdrawn prior to any formal vote.

Redefinitions and discreditations

1. Modified camerolaite formula $\text{Cu}_6\text{Al}_3(\text{OH})_{18}(\text{H}_2\text{O})_2[\text{Sb}(\text{OH})_6](\text{SO}_4)$ (Jan 2015)
2. Modified aradite formula $\text{BaCa}_6[(\text{SiO}_4)(\text{VO}_4)](\text{VO}_4)_2\text{F}$ (Jan. 2015)
3. Bohseite redefined as $\text{Ca}_4\text{Be}_{3+x}\text{Al}_{1-x}\text{Si}_9\text{O}_{25-x}(\text{OH})_{3+x}$ (with $x = 0$ to 1) (Feb. 2015)
4. Betalomonosovite officially re-approved as



5. Churchite-(Nd) is officially discredited (March 2015)
6. Iodine is officially discredited (March 2015)
7. Baumhauerite-2a is renamed argentobaumhauerite (May 2015)
8. The simplified formula of wernerbaurite and schindlerite are redefined as ammonium-bearing decavanadate minerals with the formulae $\{(\text{NH}_4)_2[\text{Ca}_2(\text{H}_2\text{O})_{14}](\text{H}_2\text{O})_2\}\{\text{V}_{10}\text{O}_{28}\}$, and $\{(\text{NH}_4)_4\text{Na}_2(\text{H}_2\text{O})_{10}\}\{\text{V}_{10}\text{O}_{28}\}$, respectively (May 2015)
9. Anatacamite is officially discredited (July 2015)
10. Magnesioastrophyllite is validated under the name lobanovite, $\text{K}_2\text{Na}(\text{Fe}^{2+}_4\text{Mg}_2\text{Na})\text{Ti}_2(\text{Si}_4\text{O}_{12})_2\text{O}_2(\text{OH})_4$ (July 2015)
11. Hydrotalcite samples MFN_MIN_1998_2751 and MFN_MIN_1998_2758, labelled by Gustav Rose and deposited at the Museum für Naturkunde Berlin, are defined as neotypes. The type locality is Snarum, Modum, Buskerud, Norway (July 2015)
12. The names hancockite, niigataite and tweddillite are reinstated instead of epidote-(Pb), clinozoisite-(Sr) and manganipiemontite-(Sr), respectively (July 2015)
13. The name garronite becomes a series name, and the mineral formerly referred to as garronite is renamed garronite-Ca (July 2015)
14. Thérèsemaganite is redefined as a mineral of the gordaite group, with formula $\text{NaCo}_4(\text{SO}_4)(\text{OH})_6\text{Cl}\cdot 6\text{H}_2\text{O}$ and cobaltogordaite (IMA 2014-043), which is identical to thérèsemaganite, is discredited (Sept. 2015)
15. The spelling of eight mineral names is modified as follows: achavalite becomes achávalite; behierite becomes bêhierite; camerolaite becomes camérolaite; fabriesite becomes fabrièsite; remondite-(Ce) becomes rémondite-(Ce); remondite-(La) becomes rémondite-(La); sénarmontite becomes senarmontite; sérandite becomes serandite (Nov. 2015)
16. The chemical formula of bafertisite is revised as follows $\text{Ba}_2\text{Fe}^{2+}_4\text{Ti}_2(\text{Si}_2\text{O}_7)_2\text{O}_2(\text{OH})_2\text{F}_2$ (Nov. 2015)
17. The chemical formula of benleonardite is modified as $\text{Ag}_{15}\text{Cu}(\text{Sb,As})_2\text{S}_7\text{Te}_4$ (Nov. 2015)
18. Diomignite is officially discredited (Jan. 2016)
19. Claringbullite is redefined, $\text{Cu}_4\text{FCl}(\text{OH})_6$. Fejerite (IMA 2012–014) is consequently discredited (Jan. 2016)
20. The simplified formula of melcherite (IMA 2015-018) is redefined as $\text{Ba}_2\text{Na}_2\text{Mg}[\text{Nb}_6\text{O}_{19}]\cdot 6\text{H}_2\text{O}$ (Jan. 2016)
21. Partzite and parabariomicrolite are discredited (March 2016)
22. The ideal formula of cairncrossite is redefined as $\text{Sr}_2\text{Ca}_{7-x}\text{Na}_{2x}(\text{Si}_4\text{O}_{10})_4(\text{OH})_2(\text{H}_2\text{O})_{15-x}$ (with $0 \leq x \leq 1$) (May 2016)

Nomenclature of mineral groups

1. A new nomenclature scheme for the perovskite group is approved (March 2016)
2. Ralstonite was renamed hydrokenoralstonite and coulsellite was renamed fluornatrocoulsellite, and both were incorporated into the pyrochlore-supergrupp (July 2016)

CNMNC newsletter

The CNMNC newsletter continues to be published in *Mineralogical Magazine* (six issues per year) and it is an important channel to make the CNMNC activities and decisions visible to the Earth Sciences community. The newsletter continues to be an important document to professional and amateur mineralogists alike.

List of Minerals

The IMA list of minerals continues to be updated frequently and the latest upload to the CNMNC website (<http://ima-cnmnc.nrm.se/>) was in July 2016.

Business meetings

The CNMNC holds its business meetings every two years, when its members participate in IMA General Meetings and Mineralogy & Museums Conferences, each of which are held every four years. The CNMNC last met in Johannesburg, South Africa in September 2014. As the planned M&M8 in China was cancelled with short notice, the next CNMNC meeting will be held during the EMC2016 in Italy in September 2016.

5. WORKPLAN FOR 2016 (August–December) and 2017

Activities

It is anticipated that the number of new mineral proposals, nomenclature revisions and discreditations will continue to be high. New subcommittees are being established.

6. OFFICERS AND NATIONAL REPRESENTATIVES AS OF JULY 2016

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