

IMA Commission on New Minerals, Nomenclature and Classification (CNMNC)

NEWSLETTER 4

New minerals and nomenclature modifications approved in 2010

P. A. WILLIAMS¹ (Chairman, CNMNC), F. HATERT² (Vice-Chairman, CNMNC), M. PASERO³ (Vice-Chairman, CNMNC) AND S. J. MILLS⁴ (Secretary, CNMNC)

¹ School of Natural Sciences, University of Western Sydney, Locked Bag 1797, Penrith South DC, NSW 1797, Australia – p.williams@uws.edu.au

² Laboratoire de Minéralogie, Université de Liège, B-4000 Liège, Belgium – fhatert@ulg.ac.be

³ Dipartimento di Scienze della Terra, Università degli Studi di Pisa, Via Santa Maria 53, I-56126 Pisa, Italy – pasero@dst.unipi.it

⁴ Department of Earth and Ocean Sciences, University of British Columbia, Vancouver BC, Canada V6T 1Z4 – smills@eos.ubc.ca

The information given here is provided by the IMA Commission on New Minerals, Nomenclature and Classification for comparative purposes and as a service to mineralogists working on new species.

Each mineral is described in the following format:

Mineral name, if the authors agree on its release prior to the full description appearing in press

Chemical formula

Type locality

Full authorship of proposal

E-mail address of corresponding author

Relationship to other minerals

Crystal system, Space group; Structure determined, yes or no

Unit-cell parameters

Strongest lines in the X-ray powder-diffraction pattern

Type specimen repository and specimen number

Citation details for the mineral prior to publication of full description

It is still a requirement for the authors to publish a full description of the new mineral.

NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION

Proposals approved in July 2010

IMA No. 2005-025a

Afmite

$\text{Al}_3(\text{OH})_4(\text{H}_2\text{O})_3(\text{PO}_4)(\text{PO}_3\text{OH})\cdot\text{H}_2\text{O}$

Fumade, Castelnau-de-Brassac, Tarn, France (43°39'30"N, 2°29'58"E)

Anthony R. Kampf*, Georges Favreau, Ian M. Steele, Stuart J. Mills, George R. Rossman and Joseph J. Pluth

*Email: akampf@nhm.org

Related to planerite and kobokoboite

Triclinic: $P\bar{1}$; structure determined $a = 7.386(3)$, $b = 7.716(3)$, $c = 11.345(4)$ Å, $\alpha = 99.773(5)$, $\beta = 91.141(6)$, $\gamma = 115.58(5)^\circ$

11.130(100), 6.813(30), 5.499(62), 4.029(24), 3.532(65), 3.087(41), 2.918(43), 2.466(21)

Type material is deposited in the Natural History Museum of Los Angeles County, Los Angeles, catalogue number 55425

How to cite: Kampf, A.R., Favreau, G., Steele, I.M., Mills, S.J., Rossman, G.R. and Pluth, J.J. (2010) Afmite, IMA 2005-025a. CNMNC Newsletter, August 2010, page 797; *Mineralogical Magazine*, 74, 797–800

IMA No. **2010-016**

Cranswickite
 $\text{MgSO}_4 \cdot 4\text{H}_2\text{O}$
 Small workings 1 km ESE of Calingasta,
 Argentina (31°20.351'S 69 23.546'W)
 Ronald C. Peterson
 *E-mail: peterson@geol.queensu.ca
 New structure type; dimorphous with starkeyite;
 unnamed mineral UM1999-28-SO:HMg
 Monoclinic: *Cc*; structure determined
 $a = 11.9172(4)$, $b = 5.1704(1)$, $c = 12.1880(3)$ Å,
 $\beta = 117.538(2)^\circ$
 5.284(100), 4.621(33), 3.983(25), 3.940(49),
 3.176(50), 3.127(24), 2.575(26), 1.952(22)
 Type material is deposited in the Royal Ontario
 Museum, Toronto, accession number 55368
 How to cite: Peterson, R.C. (2010)
 Cranswickite, IMA 2010-016. CNMNC
 Newsletter, August 2010, page 798;
Mineralogical Magazine, **74**, 797–800

IMA No. **2010-017**

Tashelgite
 $\text{CaMgFe}^{2+}\text{Al}_9\text{O}_{16}(\text{OH})$
 Tashelginskoe formation, Tashelga River,
 Gornaya Shoriya, Kemerovskaya Oblast,
 Russia (5322'60.3"N 8817'7.1"E)
 Nikita V. Chukanov
 *E-mail: chukanov@icp.ac.ru
 New structure type
 Monoclinic: *Pc*; structure determined
 $a = 5.6973(1)$, $b = 17.1823(4)$, $c = 23.5718(5)$ Å,
 $\beta = 90.046(3)^\circ$
 11.79(48), 2.845(43), 2.616(100), 2.584(81),
 2.501(39), 2.437(44), 2.406(61), 2.202(72)
 Type material is deposited in the Fersman
 Mineralogical Museum of the Russian
 Academy of Sciences, registration number
 3983/1
 How to cite: Ananyev, S.A., Konovalenko, S.I.,
 Rastsvetaeva, R.K., Aksenov, S.M., Chukanov,
 N.V., Sapozhnikov, A.N. and Zagorskii, V.E.
 (2010) Tashelgite, IMA 2010-017. CNMNC
 Newsletter, August 2010, page 798;
Mineralogical Magazine, **74**, 797–800

IMA No. **2010-018**

Laurentianite
 $\text{Na}_3\text{Nb}_3\text{Si}_4\text{O}_{17} \cdot 9\text{H}_2\text{O}$
 Poudrette Quarry, Mont Saint-Hilaire, Rouville
 County, Quebec, Canada
 Monika M. Haring*, Andrew M. McDonald,
 Glenn Poirier and Mark A. Cooper

*E-mail: mx_haring@laurentian.ca
 New structure type
 Trigonal: *P3*; structure determined
 $a = 9.9440(1)$, $c = 7.0010(1)$ Å
 8.608(100), 7.005(19), 4.312(25), 4.062(13),
 3.675(25), 3.260(31), 2.870(20), 1.836(14)
 Type material is deposited in the Fersman
 Mineralogical Museum of the Russian
 Academy of Sciences, registration number
 3983/1
 How to cite: Haring, M.M., McDonald, A.M.,
 Poirier, G. and Cooper, M.A. (2010)
 Laurentianite, IMA 2010-018. CNMNC
 Newsletter, August 2010, page 798;
Mineralogical Magazine, **74**, 797–800

IMA No. **2010-019**

Hydroxylchondrodite
 $\text{Mg}_5(\text{SiO}_4)_2(\text{OH})_2$
 Perovskitovaya Kop', Chuvashskie Mountains,
 Zlatoust district, South Urals, Russia
 Igor V. Pekov*, Ekaterina I. Gerasimova, Nikita
 V. Chukanov, Yuriy K. Kabalov, Natalia V.
 Zubkova, Aleksandr E. Zadov, Vasilii O.
 Yapaskurt, Viktor M. Gekimiyants and Dmitry
 Yu. Pushcharovsky
 *E-mail: igorpekov@mail.ru
 Hydroxyl analogue of chondrodite
 Monoclinic: *P2₁/c*; structure determined
 $a = 7.8847(12)$, $b = 4.7235(8)$, $c =$
 $10.2869(15)$ Å, $\beta = 109.19(1)^\circ$
 3.023(36), 2.763(37), 2.673(37), 2.621(44),
 2.518(59), 2.260(74), 1.740(100), 1.489(46)
 Type material is deposited in the Fersman
 Mineralogical Museum of the Russian
 Academy of Sciences, Moscow, Russia, regis-
 tration number 3986/1
 How to cite: Pekov, I.V., Gerasimova, E.I.,
 Chukanov, N.V., Kabalov, Y.K., Zubkova,
 N.V., Zadov, A.E., Yapaskurt, V.O.,
 Gekimiyants, V.M. and Pushcharovsky, D.Y.
 (2010) Hydroxylchondrodite, IMA 2010-019.
 CNMNC Newsletter, August 2010, page 798;
Mineralogical Magazine, **74**, 797–800

PROPOSALS APPROVED IN AUGUST 2010

IMA No. **2010-020**

Barlowite
 $\text{Cu}_4\text{BrF}(\text{OH})_6$
 Great Australia mine, Cloncurry, Queensland,
 Australia
 Peter Elliott* and Mark A. Cooper

*E-mail: peter.elliott@adelaide.edu.au

Isostuctural with claringbullite

Hexagonal: $P6_3/mmc$; structure determined

$a = 6.6786(2)$, $c = 9.2744(3)$ Å
5.790(100), 3.338(15), 2.889(40), 2.759(15),
2.707(55), 2.452(40), 1.778(20), 1.668(30)

Type material is deposited in the South Australian Museum, Adelaide, South Australia, registration number G17449

How to cite: Elliott, P. and Cooper, M.A. (2010) Barlowite, IMA 2010-020. CNMNC Newsletter, 2010, page 798; *Mineralogical Magazine*, **74**, 797–800

IMA No. 2010-021

Argandite

$Mn_7(VO_4)_2(OH)_8$

Pipitälli, Turtmantal, Western Swiss Alps, Switzerland

Peter Elliott*, Joël Brugger, Nicolas Meisser, Stefan Ansermet and Tom Caradoc-Davies

*E-mail: peter.elliott@adelaide.edu.au

V analogue of allactite

Monoclinic: $P2_1/n$; structure determined

$a = 5.498(2)$, $b = 12.265(3)$, $c = 10.092(2)$ Å, $\beta = 95.594(3)^\circ$

3.708(50), 3.395(60), 3.074(100), 2.945(50), 2.687(70), 2.522(50), 2.324(40), 1.791(40)

Type material is deposited in the Geological Museum, Lausanne, Switzerland, registration number MGL90369

How to cite: Elliott, P., Brugger, J., Meisser, N., Ansermet, S. and Caradoc-Davies, T. (2010) Argandite, IMA 2010-021. CNMNC Newsletter, 2010, page 799; *Mineralogical Magazine*, **74**, 797–800

IMA No. 2010-022

Clinometaborite

HBO₂

La Fossa crater, Vulcano, Aeolian Islands, Italy
Italo Campostrini*, Francesco Demartin and Carlo Maria Gramaccioli

*E-mail: italo.campostrini@unimi.it

Dimorphous with metaborite; known synthetic phase and structure

Monoclinic: $P2_1/a$

$a = 7.1215(3)$, $b = 8.8448(4)$, $c = 6.7665(3)$ Å, $\beta = 93.233(4)^\circ$

6.752(165), 3.552(60), 3.219(57), 3.179(144), 3.074(1000), 1.848(42), 1.818(23), 1.695(35)

Type material is deposited in the reference collection of the DCSSE, University of Milan, sample number 2010-01

How to cite: Campostrini, I., Demartin, F. and Gramaccioli, C.M. (2010) Clinometaborite, IMA 2010-022. CNMNC Newsletter, August 2010, page 799; *Mineralogical Magazine*, **74**, 797–800

IMA No. 2010-023

Fluorocronite

PbF₂

Kupol'noe Ag–Sn deposit, Sarychev Range, Saha Republic, Russian Federation

Stuart J. Mills*, Pavel M. Kartashov, Gennadii N. Gamyanin, Pamela S. Whitfield, Arnt Kern, Hugues Guerault and Mati Raudsepp

*E-mail: smills@eos.ubc.ca

Pb analogue of fluorite

Cubic: $Fm\bar{3}m$

$a = 5.947(3)$ Å

3.437(100), 2.976(46), 2.103(44), 1.794(42), 1.717(21), 1.366(20), 1.329(20), 1.214(19)

Type material is deposited in the collections of the Fersman Mineralogical Museum, Moscow, Russia, registration number 3987/1

How to cite: Mills, S.J., Kartashov, P.M., Gamyanin, G.N., Whitfield, P.S., Kern, A., Guerault, H. and Raudsepp, M. (2010) Fluorocronite, IMA 2010-023. CNMNC Newsletter, August 2010, page 799; *Mineralogical Magazine*, **74**, 797–800

IMA No. 2010-025

Ferroericssonite

$BaFe_2^{2+}Fe^{3+}O(Si_2O_7)(OH)$

Esquire #7 and #8 claims, Big Creek, Fresno County, California, USA

Anthony R. Kampf*, Andrew C. Roberts, Katherine E. Venance, Gail E. Dunning and Robert E. Walstrom

*E-mail: akampf@nhm.org

Fe²⁺ analogue of ericssonite

Monoclinic: $C2/m$; structure determined

$a = 20.3459(10)$, $b = 7.0119(3)$, $c = 5.3879(4)$ Å, $\beta = 94.874(7)^\circ$

3.708(43), 3.506(81), 3.027(38), 2.880(42), 2.788(100), 2.663(83), 2.126(55), 1.641(43)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, catalogue numbers 63206 (Esquire #7) and 63207 (Esquire #8)

How to cite: Kampf, A.R., Roberts, A.C., Venance, K.E., Dunning, G.E. and Walstrom, R.E. (2010) Ferroericssonite, IMA 2010-025. CNMNC Newsletter, August 2010, page 799; *Mineralogical Magazine*, **74**, 797–800

IMA No. **2010-026**

Bohseite



Ilímaussaq Alkaline Complex, Kangerdluarssuk fjord, Greenland

Henrik Friis*, Emil Makovicky, Mark T. Weller and Marie-Hélène Lemée-Cailleau

*E-mail: geofriis@yahoo.com

Forms a series with bavenite

Orthorhombic: *Cmcm*; structure determined

$a = 23.183(1)$, $b = 4.9709(3)$, $c = 19.424(1)$ Å
4.189(28), 3.727(93), 3.396(34), 3.347(100),
3.239(79), 3.120(51), 3.039(28), 2.561(25)

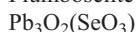
Type material is deposited in the collections of the Natural History Museum of Denmark, catalogue number 1995.32

How to cite: Friis, H., Makovicky, E., Weller, M.T. and Lemée-Cailleau, M.-H. (2010)

Bohseite, IMA 2010-026. CNMNC Newsletter, 2010, page 800; *Mineralogical Magazine*, **74**, 797–800

IMA No. **2010-028**

Plumboselite



Tsumeb mine, Tsumeb, Namibia

Anthony R. Kampf* Stuart J. Mills and William W. Pinch

*E-mail: akampf@nhm.org

New structure type

Orthorhombic: *Cmc2₁*; structure determined

$a = 10.5384(11)$, $b = 10.7452(13)$, $c = 5.7577(7)$ Å
3.155(100), 2.886(22), 2.691(17), 2.197(12),
1.956(26), 1.886(13), 1.713(21), 1.271(17)

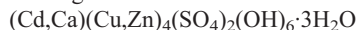
Type material is deposited in the collections of the Natural History Museum of Los Angeles County, California, USA, catalogue number 63264

How to cite: Kampf, A.R., Mills, S.J. and Pinch, W.W. (2010) Plumboselite, IMA 2010-028.

CNMNC Newsletter, August 2010, page 800; *Mineralogical Magazine*, **74**, 797–800

IMA No. **2010-029**

Aldridgeite



Block 14 opencut, Broken Hill, New South Wales, Australia

Peter Elliott* and Allan Pring

*E-mail: peter.elliott@adelaide.edu.au

Cd analogue of serpierite

Monoclinic: *C2/c*

$a = 22.049(2)$, $b = 6.212(2)$, $c = 21.839(2)$ Å,
 $\beta = 113.19(3)^\circ$

10.167(100), 5.076(55), 3.380(35), 2.704(30),
2.645(60), 2.612(30), 2.439(50), 2.167(35)

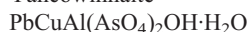
Type material is deposited in the collections of the South Australian Museum, Adelaide, South Australia, registration number G33030

How to cite: Elliott, P. and Pring, A. (2010)

Aldridgeite, IMA 2010-029. CNMNC Newsletter, August 2010, page 800; *Mineralogical Magazine*, **74**, 797–800

IMA No. **2010-030**

Yancowinnaite



No. 3 lens, Kintore opencut, Broken Hill, New South Wales, Australia

Peter Elliott* and Allan Pring

*E-mail: peter.elliott@adelaide.edu.au

Tsumcorite group

Triclinic: *P1*

$a = 5.444(2)$, $b = 5.640(2)$, $c = 7.518(2)$ Å, $\alpha = 67.89(2)$,
 $\beta = 69.48(2)$, $\gamma = 70.18(2)^\circ$
4.590(35), 3.286(65), 2.949(100), 2.891(40),
2.850(45), 2.501(30), 2.492(80), 1.110(50)

Type material is deposited in the collections of the South Australian Museum, Adelaide, South Australia, registration number G33029

How to cite: Elliott, P. and Pring, A. (2010)

Yancowinnaite, IMA 2010-030. CNMNC Newsletter, August 2010, page 800; *Mineralogical Magazine*, **74**, 797–800