

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

NEWSLETTER 9

New minerals and nomenclature modifications approved in 2011

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 Geosciences, Museum Victoria, GPO Box 666, Melbourne 3001, Victoria, Australia – SMills@museum.vic.gov.au

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

NEW MINERAL PROPOSALS APPROVED IN MARCH 2011

IMA No. 2010-053

Billwiseite

$\text{Sb}_5^{3+}\text{Nb}_3\text{WO}_{18}$

Nanga Parbat-Haramosh massif at Stak Nala, Pakistan (35°44'37"N 75°02'35"E)

Frank C. Hawthorne*, Fernando Cámara, Mark A. Cooper, Neil A. Ball, Petr Černý and Brendan M. Laurs

*E-mail: frank_hawthorne@umanitoba.ca

New structure type

Monoclinic: $C2/c$; structure determined

$a = 54.206(6)$, $b = 4.9163(5)$, $c = 5.5540(6)$ Å,

$\beta = 90.396(2)^\circ$
3.500(51), 3.154(90), 3.017(100), 2.462(23),
1.906(47), 1.828(30), 1.735(30), 1.662(53)
Type material is deposited in the collections of
the Department of Natural History, Royal
Ontario Museum, Toronto, Canada, catalogue
number M55951
How to cite: Hawthorne, F.C., Cámara, F.,
Cooper, M.A., Ball, N.A., Černý, P. and Laurs,
B.M. (2011) Billwiseite, IMA 2010-053.
CNMNC Newsletter No. 9, August 2011, page
2535; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. 2010-065

Atelisite-(Y)
 $Y_4Si_3O_8(OH)_8$
Steind quarry, Tysfjord, Norway
(68°10'15.20"N 16°33'10.65"E)
Thomas Malcherek, Boriana Mihailova, Jochen
Schlüter* and Tomas A. Husdal
*E-mail: jochen.schlueter@uni-hamburg.de
Known structure type
Tetragonal: $I\bar{4}2d$; structure determined
 $a = 6.947(4)$, $c = 6.133(3)$ Å
4.581(45), 3.465(100), 2.766(31), 2.596(58),
2.453(20), 2.161(26), 1.841(23), 1.780(52)
Type material is deposited in the collections of
the Mineralogical Museum of the University of
Hamburg, Hamburg, Germany, catalogue
number NO-004
How to cite: Malcherek, T., Mihailova, B.,
Schlüter, J. and Husdal, T.A. (2011) Atelisite-
(Y), IMA 2010-065. CNMNC Newsletter No. 9,
August 2011, page 2536; *Mineralogical
Magazine*, **75**, 2535–2540

IMA No. 2010-076

Heisenbergite
 $UO_2(OH)_2 \cdot H_2O$
Menzenschwand uranium deposit, Southern
Black Forest, Baden-Württemberg, Germany
Kurt Walenta and Thomas Theye*
*E-mail: thomas.theye@imi.uni-stuttgart.de
Unknown structure type
Orthorhombic: $P2_12_12_1$, $Pna2_1$ or $Pnma$
 $a = 13.10(1)$, $b = 13.76(1)$, $c = 14.50(1)$ Å
7.92(10), 7.25(9), 5.96(4), 4.02(3), 3.57(7),
3.27(9), 2.95(3), 1.992(4)
Type material is deposited in the collections of
the Staatliches Museum für Naturkunde
Stuttgart, Germany, under catalogue name

heisenbergite
How to cite: Walenta, K. and Theye, T. (2011)
Heisenbergite, IMA 2010-076. CNMNC
Newsletter No. 9, August 2011, page 2536;
Mineralogical Magazine, **75**, 2535–2540

IMA No. 2010-079

Boscardinite
 $Ag_{0.3}Tl_{1.2}Pb_3(Sb_{7.8}As_{1.7})S_{18}$
Sant'Olga tunnel, Monte Arsiccio mine,
Stazzema, Apuan Alps, Tuscany, Italy (43°58'
10°17'E)
Paolo Orlandi*, Cristian Biagioni, Elena
Bonaccorsi, Yves Moëlo and Werner H. Paar
*E-mail: orlandi@dst.unipi.it
Tl-Sb analogue (homeotype) of baumhauerite
Triclinic: $P\bar{1}$; structure determined
 $a = 8.0929(4)$, $b = 8.7610(5)$, $c = 22.4971(11)$ Å,
 $\alpha = 90.868(4)$, $\beta = 97.247(4)$, $\gamma = 90.793(4)^\circ$
3.704(m), 3.542(s), 2.832(ms), 2.723(m),
2.337(m)
Type material is deposited in the collections of
the Museo di Storia Naturale e del Territorio,
Università di Pisa, Calci (PI), Italy, catalogue
number 19349
How to cite: Orlandi, P., Biagioni, C.,
Bonaccorsi, E., Moëlo, Y. and Paar, W.H.
(2011) Boscardinite, IMA 2010-079. CNMNC
Newsletter No. 9, August 2011, page 2536;
Mineralogical Magazine, **75**, 2535–2540

IMA No. 2010-083

Windhoekite
 $Ca_2Fe_{2.67}^{3+}(Si_8O_{20})(OH)_4 \cdot 10H_2O$
Ariskop Quarry, Aris, near Windhoek,
Windhoek district, Khomas Region, Namibia
Nikita V. Chukanov*, Sergey N. Britvin, Günter
Blaß, Dmitriy I. Belakovsky and Konstantin V.
Van
*E-mail: chukanov@icp.ac.ru
Palygorskite group
Monoclinic: $C2/m$; structure determined
 $a = 14.319(5)$, $b = 17.825(4)$, $c = 5.242(1)$ Å,
 $\beta = 103.5(2)^\circ$
11.04(100), 4.432(10), 4.134(6), 3.749(4),
3.486(11), 2.636(8), 2.550(4), 2.507(6)
Type material is deposited in the collections of
the Fersman Mineralogical Museum of the
Russian Academy of Sciences, Moscow,
Russia, registration number 4070/1
How to cite: Chukanov, N.V., Britvin, S.N.,
Blaß, G., Belakovsky, D.I. and Van, K.V.
(2011) Windhoekite, IMA 2010-083. CNMNC

Newsletter No. 9, August 2011, page 2536;
Mineralogical Magazine, **75**, 2535–2540

IMA No. 2010-084

Magnesiohögbohmite-2N4S
(Mg_{8.2}Fe_{1.3}Zn_{0.2})Al_{22.7}Ti_{1.6}⁴⁺O₄₆(OH)₂
Koyubi Ridge, Sør Rondane Mountains, East
Antarctica (71°54.381'S 24°13.197'E)
Toshiaki Shimura*, Junji Akai, Biljana Lazic,
Thomas Armbruster, Masaaki Shimizu, Atsushi
Kamei, Kazuhiro Tsukada, Masaaki Owada and
Masaki Yuhara

*E-mail: smr@gs.niigata-u.ac.jp

Högbohmite group

Hexagonal: $P6_3mc$; structure determined
 $a = 5.7105(1)$, $c = 27.6760(4)$ Å,
2.856(37), 2.612(39), 2.428(100), 2.416(39),
2.097(30), 2.012(50), 1.549(35), 1.428(57)

Type material is deposited in the collections of
the National Museum of Nature and Science,
Tokyo, Japan, registration number NSM-
MF15438

How to cite: Shimura, T., Akai, J., Lazic, B.,
Armbruster, T., Shimizu, M., Kamei, A.,
Tsukada, K., Owada, M. and Yuhara, M. (2011)
Magnesiohögbohmite-2N4S, IMA 2010-084.
CNMNC Newsletter No. 9, August 2011, page
2537; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. 2010-086

Beaverite-(Zn)
Pb(Fe₂Zn)(SO₄)₂(OH)₆
Mikawa mine, Niigata Prefecture, Japan
(37.47°N E 139.27°E)

Eriko Sato*, Izumi Nakai, Yasuko Terada,
Yasuyuki Tsutsumi, Kazumi Yokoyama,
Ritsuro Miyawaki and Satoshi Matsubara

*E-mail: j1306650@ed.kagu.tus.ac.jp

Alunite supergroup

Trigonal: $R\bar{3}m$; structure determined
 $a = 7.3078(7)$, $c = 17.066(1)$ Å
5.88(30), 5.74(100), 3.06(22), 3.00(94),
2.87(27), 2.28(39), 1.92(22), 1.50(21)

Type material is deposited in the collections of
the National Science Museum, Tokyo, Japan,
registered number NSM-M28910

How to cite: Sato, E., Nakai, I., Terada, Y.,
Tsutsumi, Y., Yokoyama, K., Miyawaki and R.,
Matsubara, S. (2011) Beaverite-(Zn), IMA
2010-086. CNMNC Newsletter No. 9, August
2011, page 2537; *Mineralogical Magazine*, **75**,
2535–2540

IMA No. 2010-087

Dymkovite
Ni(UO₂)₂(As³⁺O₃)₂·7H₂O
Belorechenskoye deposit, Adygea Republic,
Northern Caucasus, Russia
Igor V. Pekov*, Viktor V. Levitskiy, Sergey V.
Krivovichev, Andrey A. Zolotarev, Nikita V.
Chukanov, Igor A. Bryzgalov and Aleksandr E.
Zadov

*E-mail: igorpekov@mail.ru

Structurally related to seelite

Monoclinic: $C2/m$; structure determined
 $a = 17.99(3)$, $b = 7.033(7)$, $c = 6.633(9)$ Å, $\beta =$
99.62(11)°

8.93(100), 4.883(17), 4.463(34), 3.984(16),
3.523(23), 3.276(21), 3.008(26), 2.846(27)

Type material is deposited in the collections of
the Fersman Mineralogical Museum of the
Russian Academy of Sciences, Moscow,
Russia, registered number 4071/1

How to cite: Pekov, I.V., Levitskiy, V.V.,
Krivovichev, S.V., Zolotarev, A.A., Chukanov,
N.V., Bryzgalov, I.A. and Zadov, A.E. (2011)
Dymkovite, IMA 2010-087. CNMNC
Newsletter No. 9, August 2011, page 2537;
Mineralogical Magazine, **75**, 2535–2540

IMA No. 2010-088

Galloplumbogummite

Pb(Ga,Al,Ge)₃(PO₄)₂(OH)₆
Second oxidation zone, Tsumeb ore deposit,
Tsumeb, Namibia

Jochen Schlüter* and Thomas Malcherek

*E-mail: jochen.schlueter@uni-hamburg.de

Alunite supergroup

Trigonal: $R\bar{3}m$; structure determined
 $a = 7.083(5)$, $c = 16.742(3)$ Å
5.730(100), 3.528(24), 2.983(78), 2.466(12),
2.288(7), 2.225(19), 1.912(17), 1.768(15)

Type material is deposited in the collections of
the Mineralogical Museum of the University of
Hamburg, Hamburg, Germany, catalogue
number TS 315

How to cite: Schlüter, J. and Malcherek, T.
(2011) Galloplumbogummite, IMA 2010-088.
CNMNC Newsletter No. 9, August 2011, page
2537; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. 2010-089

Perrierite-(La)

(La,Ce,Ca)₄(Fe²⁺,Mn)(Ti,Fe³⁺,Al)₄(Si₂O₇)₂O₈
Mendig, Laacher See area, Eifel Mountains,
Rhineland-Palatinate (Rheinland-Pfalz),

Germany

Nikita V. Chukanov*, Günter Bläß, Igor V. Pekov, Dmitriy I. Belakovsky, Konstantin V. Van, Ramiza K. Rastsvetaeva and Sergey M. Aksenov

*E-mail: chukanov@icp.ac.ru

Isostructural with perrierite-(Ce)

Monoclinic: $P2_1/a$; structure determined

$a = 13.668(1)$, $b = 5.6601(6)$, $c = 11.743(1)$ Å, $\beta = 113.64(1)^\circ$

5.19(40), 3.53(40), 2.96(100), 2.80(50), 2.14(50), 1.947(50), 1.657(40)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4059/1

How to cite: Chukanov, N.V., Bläß, G., Pekov, I.V., Belakovsky, D.I., Van, K.V., Rastsvetaeva, R.K. and Aksenov, S.M. (2011) Perrierite-(La), IMA 2010-089. CNMNC Newsletter No. 9, August 2011, page 2537; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. 2010-090

Erikapohlite

$\text{Cu}_3(\text{Zn,Cu,Mg})_4\text{Ca}_2(\text{AsO}_4)_6 \cdot 2\text{H}_2\text{O}$

Level 44, Tsumeb deposit, Tsumeb, Namibia

Jochen Schlüter*, Thomas Malcherek and Georg Gebhard

*E-mail: jochen.schluter@uni-hamburg.de

Ca-dominant analogue of keyite

Monoclinic: $C2/c$

$a = 12.6562(8)$, $b = 12.727(1)$, $c = 6.9146(4)$ Å, $\beta = 113.923(5)^\circ$

3.304(49), 3.160(32), 2.892(100), 2.788(40), 2.764(14), 1.728(10), 1.650(10), 1.485(10)

Type material is deposited in the collections of the Mineralogical Museum of the University of Hamburg, Hamburg, Germany, catalogue number TS 117c

How to cite: Schlüter, J., Malcherek, T. and Georg Gebhard, G. (2011) Erikapohlite, IMA 2010-090. CNMNC Newsletter No. 9, August 2011, page 2538; *Mineralogical Magazine*, **75**, 2535–2540

NEW MINERAL PROPOSALS APPROVED IN APRIL 2011

IMA No. 2011-001

Gunterite

$\text{Na}_4(\text{H}_2\text{O})_{16}(\text{H}_2\text{V}_{10}\text{O}_{28}) \cdot 6\text{H}_2\text{O}$

West Sunday mine, Slick Rock District, San

Miguel County, Colorado, USA

Anthony R. Kampf, John M. Hughes*, Joe Marty and Barbara Nash

*E-mail: jmhughes@uvm.edu

New structure type

Monoclinic: $C2/m$; structure determined

$a = 19.848(2)$, $b = 10.1889(11)$,

$c = 13.1184(15)$ Å, $\beta = 130.187(9)^\circ$

10.01(100), 8.44(72), 8.09(46), 2.997(29), 2.795(21), 2.144(18), 2.024(15), 1.971(18)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, CA 90007, USA, catalogue numbers 63506 and 63507

How to cite: Kampf, A.R., Hughes, J.M., Marty, J. and Nash, B. (2011) Gunterite, IMA 2011-001. CNMNC Newsletter No. 9, August 2011, page 2538; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. 2011-002

Whiteite-(CaMnMn)

$\text{CaMnMn}_2\text{Al}_2[\text{PO}_4]_4(\text{OH})_2 \cdot 8\text{H}_2\text{O}$

Hagendorf Süd granitic pegmatite, Germany

Victor N. Yakovenchuk*, Erich Keck, Sergey

V. Krivovichev, Yakov A. Pakhomovsky,

Ekaterina A. Selivanova, Julia A. Korchak,

Anastasiya P. Chernyatieva and Gregory Yu.

Ivanyuk

*E-mail: yakovenchuk@geoksc.apatity.ru

Whiteite group

Monoclinic: $P2/a$; structure determined

$a = 15.02(2)$, $b = 6.95(1)$, $c = 10.13(3)$ Å,

$\beta = 111.6(1)^\circ$

9.443(65), 5.596(25), 4.929(80), 4.719(47), 3.494(46), 2.796(100), 1.979(24), 1.951(24)

Type material is deposited in the collections of the Mineralogical Museum of St Petersburg State University, Russia, catalogue number 1/19470

How to cite: Yakovenchuk, V.N., Keck, E., Krivovichev, S.V., Pakhomovsky, Y.A., Selivanova, E.A., Korchak, J.A., Chernyatieva, A.P. and Ivanyuk, G.Y. (2011) Whiteite-(CaMnMn), IMA 2011-002. CNMNC Newsletter No. 9, August 2011, page 2538; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. 2011-003

Chromschieffelinite

$\text{Pb}_{10}\text{Te}_6\text{O}_{20}(\text{OH})_{14}(\text{CrO}_4)(\text{H}_2\text{O})_5$

Bird Nest drift, Otto Mountain, San Bernardino

County, California, USA ($35^\circ 16.606' \text{N}$)

116°05.956'W)

Anthony R. Kampf*, Stuart J. Mills, Robert M. Housley and Mike S. Rumsey

*E-mail: akampf@nhm.org

Chromate analogue of schieffelinite

Orthorhombic: $C222_1$; structure determined

$a = 9.6646(3)$, $b = 19.4962(8)$, $c = 10.5101(7)$ Å
9.814(100), 3.575(41), 3.347(44), 3.262(53),
3.052(45), 2.946(55), 2.040(33), 1.650(33)

Type material is deposited in the collections of the Mineral Sciences Department, Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 63511

How to cite: Anthony R. Kampf, A.R., Mills, S.J., Housley, R.M. and Rumsey, M.S. (2011) Chromschieffelinite, IMA 2011-003. CNMNC Newsletter No. 9, August 2011, page 2538; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. 2011-004

Tungsten

W

Bol'shaya Pol'ya River, Prepolar Urals, Russia (64°24'11"N 60°29'13"E) and in quartz vein 91, Dodo mine, Ust-Puiva, Tyumenskaya Oblast', Russia (64°35'N 59°43'E)

Stuart J. Mills*, Pavel M. Kartashov, Anthony R. Kampf, Mike S. Rumsey, Chi Ma, John Spratt, George R. Rossman and Margarita I. Novgorodova

*E-mail: SMills@museum.vic.gov.au

Native element

Cubic: $Im\bar{3}m$; known structure

$a = 3.1648(4)$ Å
2.242(100), 1.584(25), 1.293(48), 1.119(16),
1.001(23), 0.914(6), 0.846(24)

Type material is deposited in the collections of the Mineral Sciences Department, Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 63271 (Dodo) and 63272 (Bol'shaya Pol'ya River), and the Mineralogy Department, Natural History Museum, London, UK, catalogue number BM2010,122

How to cite: Mills, S.J., Kartashov, P.M., Kampf, A.R., Rumsey, M.S., Ma, C., Spratt, J., Rossman, G.R. and Novgorodova, M.I. (2011) Tungsten, IMA 2011-004. CNMNC Newsletter No. 9, August 2011, page 2539; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. 2011-005

Cupromolybdate

$Cu_3O(MoO_4)_2$

Yadovitaya fumaroles (second scoria cone), Tolbachik volcano, Kamchatka peninsula, Kamchatka Oblast', Far-Eastern Region, Russia (55°41'N, 160°14'E)

Michael E. Zelenski, Natalia V. Zubkova, Igor V. Pekov*, Yury S. Polekhovskiy and Dmitry Yu. Pushcharovskiy

*E-mail: igorpekov@mail.ru

Molybdate-dominant analogue of vergasovaite

Orthorhombic: $Pnma$; structure determined

$a = 7.6638(1)$, $b = 6.8670(1)$, $c = 14.5554(2)$ Å
7.312(67), 3.701(38), 3.518(55), 3.436(100),
3.301(99), 3.065(79), 2.556(62), 2.506(66)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4072/1

How to cite: Zelenski, M.E., Zubkova, N.V., Igor V. Pekov, I.V., Polekhovskiy, Y.S. and Pushcharovskiy, D.Y. (2011) Cupromolybdate, IMA 2011-005. CNMNC Newsletter No. 9, August 2011, page 2539; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. 2011-006

Adranosite-(Fe)

$(NH_4)_4NaFe_2^{3+}(SO_4)_4Cl(OH)_2$

La Fossa crater, Vulcano, Aeolian Islands, Italy
Francesco Demartin*, Anna Garavelli, Italo Campostrini, Carlo Maria Gramaccioli, Uwe Kolitsch, Donatella Mitolo and Daniela Pinto

*E-mail: francesco.demartin@unimi.it

Fe^{3+} analogue of adranosite

Tetragonal: $I4_1/acd$; structure determined

$a = 18.261(2)$, $c = 11.562(1)$ Å
9.134(100), 6.462(36), 4.569(83), 3.232(29),
3.047(79), 2.891(11), 2.156(7), 1.697(7)

Type material is deposited in the collections of the Dipartimento di Chimica Strutturale e Stereochimica Inorganica, Università degli Studi di Milano, sample number 2010-02) and the C.L. Garavelli Museum, Dipartimento Geomineralogico Università di Bari, Bari, Italy, catalogue number 10/nm-V28

How to cite: Demartin, F., Garavelli, A., Campostrini, I., Gramaccioli, C.M., Kolitsch, U., Mitolo, D. and Pinto, D. (2011) Adranosite-(Fe), IMA 2011-006. CNMNC Newsletter No. 9, August 2011, page 2539; *Mineralogical Magazine*, **75**, 2535–2540

**NOMENCLATURE PROPOSALS APPROVED
IN APRIL 2011**

IMA 11-A: The proposal on the correction of the brunogeierite formula and change of its

classification is accepted. The ideal end-member formula of brunogeierite becomes $(\text{Fe}^{2+})_2\text{Ge}^{4+}\text{O}_4$. The mineral should be classified as a nesogermanate, a member of the ringwoodite group.