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CNMNC Newsletter

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

NEWSLETTER 9

New minerals and nomenclature modifications approved in 2011

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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
$Sb_5^{3+}Nb_3WO_{18}$

DOI: 10.1180/minmag.2011.075.4.2535

Nanga Parbat-Haramosh massif at Stak Nala, Pakistan (35º44′37″N 75º02′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: *C*2/*c*; structure determined
a = 54.206(6), b = 4.9163(5), c = 5.5540(6) Å,

β = 90.396(2)º
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)
$Y_4Si_3O_8(OH)_8$
Stetind quarry, Tysfjord, Norway (68º10′15.20″N 16º33′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 (43º58′ 10º17′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, α = 90.868(4), β = 97.247(4), γ = 90.793(4)º
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
$Ca_2Fe^{3+}_{2.67}(Si_8O_{20})(OH)_4{\cdot}10H_2O$
Ariskop Quarry, Aris, near Windhoek, Windhoek district, Khomas Region, Namibia
Nikita V. Chukanov*, Sergey N. Britvin, Günter Blaβ, 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, β = 103.5(2)º
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., Blaβ, 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**
Magnesiohögbomite-2*N*4*S*
$(Mg_{8.2}Fe^{2+}_{1.3}Zn_{0.2})Al_{22.7}Ti^{4+}_{1.6}O_{46}(OH)_2$
Koyubi Ridge, Sør Rondane Mountains, East Antarctica (71º54.381′S 24º13.197′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
Högbomite 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) Magnesiohögbomite-2*N*4*S*, IMA 2010-084. CNMNC Newsletter No. 9, August 2011, page 2537; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. **2010-086**
Beaverite-(Zn)
$Pb(Fe_2Zn)(SO_4)_2(OH)_6$
Mikawa mine, Niigata Prefecture, Japan (37.47ºN E 139.27ºE)
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
$Ni(UO_2)_2(As^{3+}O_3)_2{\cdot}7H_2O$
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, β = 99.62(11)º
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
$Pb(Ga,Al,Ge)_3(PO_4)_2(OH)_6$
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)
$(La,Ce,Ca)_4(Fe^{2+},Mn)(Ti,Fe^{3+},Al)_4(Si_2O_7)_2O_8$
Mendig, Laacher See area, Eifel Mountains, Rhineland-Palatinate (Rheinland-Pfalz),

Germany
Nikita V. Chukanov*, Günter Blaß, 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, β = 113.64(1)º
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., Blaβ, 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
$Cu_3(Zn,Cu,Mg)_4Ca_2(AsO_4)_6{\cdot}2H_2O$
Level 44, Tsumeb deposit, Tsumeb, Namibia
Jochen Schlüter*, Thomas Malcherek and Georg Gebhard
*E-mail: jochen.schlueter@uni-hamburg.de
Ca-dominant analogue of keyite
Monoclinic: $C2/c$
a = 12.6562(8), b = 12.727(1), c = 6.9146(4) Å, β = 113.923(5)º
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
$Na_4(H_2O)_{16}(H_2V_{10}O_{28}){\cdot}6H_2O$
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, β = 130.187(9)º
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)
$CaMnMn_2Al_2[PO_4]_4(OH)_2{\cdot}8H_2O$
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, β = 111.6(1)º
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
$Pb_{10}Te_6O_{20}(OH)_{14}(CrO_4)(H_2O)_5$
Bird Nest drift, Otto Mountain, San Bernadino County, California, USA (35º16.606′N

116º05.956′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 (64º24′11″N 60º29′13″E) and in quartz vein 91, Dodo mine, Ust-Puiva, Tyumenskaya Oblast', Russia (64º35′N 59º43′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**
Cupromolybdite
$Cu_3O(MoO_4)_2$
Yadovitaya fumaroles (second scoria cone), Tolbachik volcano, Kamchatka peninsula, Kamchatka Oblast', Far-Eastern Region, Russia (55º41′N, 160º14′E)
Michael E. Zelenski, Natalia V. Zubkova, Igor V. Pekov*, Yury S. Polekhovsky and Dmitry Yu. Pushcharovsky
*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., Polekhovsky, Y.S. and Pushcharovsky, D.Y. (2011) Cupromolybdite, IMA 2011-005. CNMNC Newsletter No. 9, August 2011, page 2539; *Mineralogical Magazine*, **75**, 2535–2540

IMA No. **2011-006**
Adranosite-(Fe)
$(NH_4)_4NaFe^{3+}_2(SO_4)_4Cl(OH)_2$
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 $(Fe^{2+})_2Ge^{4+}O_4$. The mineral should be classified as a nesogermanate, a member of the ringwoodite group.