Mineralogical Magazine, February 2016, Vol. 80(1), pp. 199–205

CNMNC Newsletter

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

NEWSLETTER 29

New minerals and nomenclature modifications approved in 2015 and 2016

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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 powder X-ray diffraction pattern
Type specimen repository and specimen number
Citation details for the mineral prior to publication of full description

Citation details concern the fact that this information will be published in the *Mineralogical Magazine* on a routine basis, as well as being added month by month to the Commission's web site.

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

DOI: 10.1180/minmag.2016.080.080

NEW MINERAL PROPOSALS APPROVED IN DECEMBER 2015

IMA No. **2014-111**
Abellaite
$NaPb_2(CO_3)_2(OH)$
Eureka mine, Castellestaó, near the village of La Torre de Cabdella (Lleida), Catalonia, Spain (42° 23′10.12″N, 0°57′27.57″E)
Jordi Ibáñez-Insa*, Josep J. Elvira, Núria Oriols, Xavier Llovet and Joan Viñals
*E-mail: jibanez@ictja.csic.es
Known synthetic analogue
Trigonal: *P*31*c*; structure determined
a = 5.260(2), *c* = 13.463(5) Å
3.364(22), 3.197(100), 2.631(73), 2.278(52), 2.247(26), 2.075(43), 2.031(95), 2.012(25)
Cotype material is deposited in the collections of the Natural History Museum of Barcelona, Barcelona, Spain, specimen number MGB 26.350
How to cite: Ibáñez-Insa, J., Elvira, J.J., Oriols, N., Llovet, X. and Viñals, J. (2016) Abellaite, IMA 2014-111. CNMNC Newsletter No. 29, February 2016, page 200; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-070**
Mengxianminite
$(Ca,Na)_2Sn_2(Mg,Fe)_3Al_8[(BO_3)(BeO_4)O_6]_2$
Xianghualing skarn, Linwu County, Hunan Province, China (25°26′N, 112°34′E)
Can Rao*, Frédéric Hatert, Fabrice Dal Bo, Rucheng Wang, Xiangping Gu and Maxime Baijot
*E-mail: canrao@zju.edu.cn
New structure type
Orthorhombic: *Fdd*2; structure determined
a = 60.689(3), *b* = 9.907(1), *c* =5.740(1) Å
3.00(35), 2.931(100), 2.475(29), 2.430(30), 2.375(100), 2.028(52), 1.807(35), 1.530(98)
Cotype material is deposited in the collections of the Geological Museum of China, No. 16, Yangrou Hutong, Xisi, Beijing 100031, P.R. of China, catalogue number M13293, and the Laboratory of Mineralogy, University of Liège, Belgium, catalogue number 20395
How to cite: Rao, C., Hatert, F., Dal Bo, F., Wang, R., Gu, X. and Baijot, M. (2016) Mengxianminite, IMA 2015-070. CNMNC Newsletter No. 29, February 2016, page 200; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-072**
Wilhelmgümbelite
$ZnFe^{2+}Fe^{3+}_3(PO_4)_3(OH)_4(H_2O)_5{\cdot}2H_2O$
Cornelia Mine Open Cut (67 m level), Hagendorf-Süd pegmatite, Hagendorf, Oberpfalz, Bavaria, Germany (49°39′1″N, 12° 27′35″E)
Ian E. Grey*, Erich Keck, Anthony R. Kampf, Colin M. MacRae, A. Matthew Glenn and Jason R. Price
*E-mail: ian.grey@csiro.au
Related to schoonerite
Orthorhombic: *Pmab*; structure determined
a = 10.987(3), *b* = 25.378(13), *c* = 6.387(6) Å
12.65(100), 8.339(5), 6.421(14), 6.228(8), 5.098(5), 4.223(30), 3.166(5), 2.111(7)
Type material is deposited in the mineralogical collections of the Museum Victoria, Melbourne, Australia, registration number M53512
How to cite: Grey, I.E., Keck, E., Kampf, A.R., MacRae, C.M., Glenn, A.M. and Price, J.R. (2016) Wilhelmgümbelite, IMA 2015-072. CNMNC Newsletter No. 29, February 2016, page 200; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015–084**
Vránaite
$Al_{16}B_4Si_4O_{38}$
Manjaka pegmatite, Sahatany Valley pegmatite field, 25 km SW of Antsirabe, Itremo Region, Madagascar (20°04′35″S, 46°57′09″E)
Jan Cempírek, Edward S. Grew*, Anthony R. Kampf, Chi Ma, Milan Novák, Petr Gadas, Radek Škoda, Michaela Vašinová-Galiová, Federico Pezzotta and Lee A. Groat
*E-mail: esgrew@maine.edu
Related to boralsilite and boromullite
Monoclinic: *I*2/*m*; structure determined
a = 10.3832(1), *b* = 5.6682(7), *c* = 10.823(1) Å, β = 90.11(1)°
5.40(96), 5.19(99), 4.97(74), 3.658(75), 3.403 (100), 2.496(61), 2.171(75), 1.518(61)
Type material is deposited in the mineralogical collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 65609, and the Department of Mineralogy and Petrography, Moravian Museum,

https://doi.org/10.1180/minmag.2016.080.080 Published online by Cambridge University Press

Brno, Czech Republic, catalogue numbers B11277 and B11278
How to cite: Cempírek, J., Grew, E.S., Kampf, A.R., Ma, C., Novák, M., Gadas, P., Škoda, R., Vašinová-Galiová, M., Pezzotta, F. and Groat, L.A. (2016) Vránaite, IMA 2015-084. CNMNC Newsletter No. 29, February 2016, page 200; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-085**
Riotintoite
$Al(SO_4)(OH)\cdot 3H_2O$
La Vendida copper mine, 3 km WNW of the Sierra Gorda village, Antofagasta Region, Atacama desert, Chile (22°53′30″S, 69°20′50″W)
Nikita V. Chukanov*, Sergey M. Aksenov, Ramiza K. Rastsvetaeva, Gerhard Möhn, Dmitriy I. Belakovskiy and Joachim A. Lorenz
*E-mail: nikchukanov@yandex.ru
New structure type
Triclinic: $P\overline{1}$; structure determined
a = 5.600(2), b = 7.450(3), c = 7.671(3) Å, α = 74.785(7), β = 86.042(8), γ = 75.810(7)°
6.975(100), 4.459(40), 4.391(72), 3.766(31), 3.695(29), 3.491(24), 3.062(19), 2.552(26)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4774/1
How to cite: Chukanov, N.V., Aksenov, S.M., Rastsvetaeva, R.K., Möhn, G., Belakovskiy, D.I. and Lorenz, J.A. (2016) Riotintoite, IMA 2015-085. CNMNC Newsletter No. 29, February 2016, page 201; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-086**
Millsite
$CuTeO_3\cdot 2H_2O$
Graurdfjellet, Oppdal Kommune, Sør-Trøndelag, Norway (62°29′11″N, 9°29′25″E)
Mike S. Rumsey*, Mark D. Welch, Frode Mo, Annette K. Kleppe, John Spratt, Anthony R. Kampf and Morten P. Raanes
*E-mail: m.rumsey@nhm.ac.uk
A polymorph of teineite
Monoclinic: $P2_1/c$; structure determined
a = 7.4049(2), b = 7.7873(2), c = 8.5217(2) Å, β = 110.203(3)°
6.949(100), 3.554(62), 3.395(32), 3.334(40), 3.234(36), 3.173(44), 2.834(37), 2.673(61)
Cotype material is deposited in the mineralogical collections of the Natural History Museum, London, UK, registration number BM 2011,243, the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 66264, and the Museum Victoria, Melbourne, Australia, catalogue number M53498
How to cite: Rumsey, M.S., Welch, M.D., Mo, F., Kleppe, A.K., Spratt, J., Kampf, A.R. and Raanes, M.P. (2016) Millsite, IMA 2015-086. CNMNC Newsletter No. 29, February 2016, page 201; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-087**
Klaprothite
$Na_6(UO_2)(SO_4)_4\cdot 4H_2O$
Blue Lizard Mine, Red Canyon, White Canyon District, San Juan Co., Utah, USA (37°33′26″N, 110°17′44″W)
Anthony R. Kampf*, Jakub Plášil, Anatoly V. Kasatkin, Joe Marty and Jiří Čejka
*E-mail: akampf@nhm.org
A dimorph of péligotite (IMA 2015-088)
Monoclinic: $P2_1/c$; structure determined
a = 9.8271(4), b = 9.7452(3), c = 20.872(1) Å, β = 98.743(7)°
9.72(68), 7.09(97), 5.158(77), 4.330(58), 3.434 (100), 3.082(65), 3.012(61), 1.914(48)
Cotype material is deposited in the collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue numbers 65610, 65611, 65612 and 65613, and the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4778/1
How to cite: Kampf, A.R., Plášil, J., Kasatkin, A.V., Marty, J. and Čejka, J. (2016) Klaprothite, IMA 2015-087. CNMNC Newsletter No. 29, February 2016, page 201; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-088**
Péligotite
$Na_6(UO_2)(SO_4)_4\cdot 4H_2O$
Blue Lizard Mine, Red Canyon, White Canyon District, San Juan Co., Utah, USA (37°33′26″N, 110°17′44″W)

https://doi.org/10.1180/minmag.2016.080.080 Published online by Cambridge University Press

Anthony R. Kampf*, Jakub Plášil, Anatoly V. Kasatkin, Joe Marty and Jiří Čejka
*E-mail: akampf@nhm.org
A dimorph of klaprothite (IMA 2015-087)
Triclinic: $P\overline{1}$; structure determined
a = 9.8151(2), b = 9.9575(2), c = 10.6289(8) Å, α = 88.680(6), β = 73.990(5), γ = 89.205(6)°
10.19(39), 9.51(48), 7.11(100), 5.14(63), 4.54(43), 4.307(53), 3.418(73), 3.121(74)
Cotype material is deposited in the collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue numbers 65610, 65614, 65615 and 65616, and the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4779/1
How to cite: Kampf, A.R., Plášil, J., Kasatkin, A.V., Marty, J. and Čejka, J. (2016) Péligotite, IMA 2015-088. CNMNC Newsletter No. 29, February 2016, page 201; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-021a**
Tinnunculite
$C_5H_4N_4O_3 \cdot 2H_2O$
Mt. Rasvumchorr, Khibiny Mts., Kola peninsula, Russia (67°37′N, 33°53′E)
Igor V. Pekov*, Nikita V. Chukanov, Dmitry I. Belakovskiy, Inna S. Lykova, Vasiliy O. Yapaskurt, Natalia V. Zubkova, Elena P. Shcherbakova and Sergey N. Britvin
*E-mail: igorpekov@mail.ru
Known synthetic analogue
Monoclinic: $P2_1/c$
a = 7.261(9), b = 6.365(7), c = 17.48(3) Å, β = 91.0(1)°
8.82(84), 5.97(15), 5.63(24), 4.22(22), 3.24(27), 3.18(100), 3.116(44), 2.576(14)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4695/1
How to cite: Pekov, I.V., Chukanov, N.V., Belakovskiy, D.I., Lykova, I.S., Yapaskurt, V.O., Zubkova, N.V., Shcherbakova, E.P. and Britvin, S.N. (2016) Tinnunculite, IMA 2015-021a. CNMNC Newsletter No. 29, February 2016, page 202; *Mineralogical Magazine*, **80**, 199–205.

NEW MINERAL PROPOSALS APPROVED IN JANUARY 2016

IMA No. **2015-090**
Goryainovite
$Ca_2(PO_4)Cl$
Stora Sahavaara iron-ore deposit, Norrbotten, Sweden (67.408°N, 23.297°E)
Gregory Y. Ivanyuk*, Victor N. Yakovenchuk, Yakov A. Pakhomovsky, Taras L. Panikorovskii, Nataliya G. Konoplyova, Ayya V. Bazai, Vladimir N. Bocharov, Andrei A. Antonov and Ekaterina A. Selivanova
*E-mail: ivanyuk@geoksc.apatity.ru
Known synthetic analogue
Orthorhombic: *Pbcm*
a = 6.215(2), b = 7.011(2), c = 10.788(3) Å
2.845(90), 2.746(100), 2.333(25), 2.028(15), 1.957(30), 1.837(20), 1.756(15), 1.373(15)
Type material is deposited in the collections of the Mineralogical Museum of the St. Petersburg State University, Russia, catalogue no. 19650
How to cite: Ivanyuk, G.Y., Yakovenchuk, V.N., Pakhomovsky, Y.A., Panikorovskii, T.L., Konoplyova, N.G., Bazai, A.V., Bocharov, V.N., Antonov, A.A. and Selivanova, E.A. (2016) Goryainovite, IMA 2015-090. CNMNC Newsletter No. 29, February 2016, page 202; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-092**
Whiteite-(MnMnMg)
$Mn^{2+}Mn^{2+}Mg_2Al_2(PO_4)_4(OH)_2 \cdot 8H_2O$
Eastern side of the Iron Monarch Quarry (130 m level), Iron Knob, South Australia, Australia (32° 45′S, 137°08′E)
Peter Elliott*
*E-mail: peter.elliott@adelaide.edu.au
Whiteite-jahnsite group
Monoclinic: *P2/a*; structure determined
a =15.036(2), b = 6.9408(5), c = 9.9431(9) Å, β =110.827(8)°
9.244(100), 5.619(15), 4.930(10), 4.839(20), 4.605(10), 3.501(20), 2.899(15), 2.759(30)
Type material is deposited in the mineralogical collections of the South Australian Museum, North Terrace, Adelaide, South Australia, Australia, registration number G32398
How to cite: Elliott, P. (2016) Whiteite-(MnMnMg), IMA 2015-092. CNMNC

https://doi.org/10.1180/minmag.2016.080.080 Published online by Cambridge University Press

Newsletter No. 29, February 2016, page 202; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-093**
Ferricoronadite
$Pb(Mn_6^{4+}Fe_2^{3+})O_{16}$
About 15 km NW of the village of Nežilovo and about 40 km SW of the city of Veles, Macedonia (41°34′N, 21°34′E)
Nikita V. Chukanov*, Sergey M. Aksenov, Simeon Jančev, Igor V. Pekov, Yuliya V. Nelyubina, Jörg Göttlicher, Yury S. Polekhovsky, Vyacheslav S. Rusakov and Konstantin V. Van
*E-mail: nikchukanov@yandex.ru
Hollandite supergroup
Tetragonal: *I*4/*m*; structure determined
a = 9.9043 (7), *c* = 2.8986 (9) Å
3.497(33), 3.128(100), 2.424(27), 2.214(23), 2.178(17), 1.850(15), 1.651(16), 1.554(18)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4787/1, and the National Institution Macedonian Museum of Natural History, Skopje, Macedonia, registration number PNMG 790
How to cite: Chukanov, N.V., Aksenov, S.M., Jančev, S., Pekov, I.V., Nelyubina, Y.V., Göttlicher, J., Polekhovsky, Y.S., Rusakov, V.S. and Van, K.V. (2016) Ferricoronadite, IMA 2015-093. CNMNC Newsletter No. 29, February 2016, page 203; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-094**
Zincobriartite
$Cu_2(Zn,Fe)(Ge,Ga)S_4$
Kipushi mine (formerly known as the Prince Léopold mine), Katanga, Democratic Republic of Congo (11°46′10″S, 27°14′8″E)
Andrew M. McDonald*, Chris J. Stanley, Kirk C. Ross and Fabrizio Nestola
*E-mail: amcdonald@laurentian.ca
The Zn analogue of briartite
Tetragonal: $I\bar{4}2\,m$; structure determined
a = 5.3433(4), *c* =10.5350(11) Å
3.056(100), 2.660(5), 1.869(35), 1.605(17), 1.594(10), 1.335(3), 1.214(6), 1.087(6)
Type material is deposited in the mineralogical collections of the Natural History Museum, Cromwell Road, London SW7 5BD, United Kingdom, catalogue number BM 1967,271
How to cite: McDonald, A.M., Stanley, C.J., Ross, K.C. and Nestola, F. (2016) Zincobriartite, IMA 2015-094. CNMNC Newsletter No. 29, February 2016, page 203; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015–095**
Magnesiovoltaite
$K_2Mg_5Fe_3^{3+}Al(SO_4)_{12}\cdot 18H_2O$
Alcaparrosa mine, at the north side of Cerro Alcaparrosa, about 3 km SW of the railroad station of Cerritos Bayos, Calama, El Loa province, Antofagasta region, Chile
Nikita V. Chukanov*, Sergey M. Aksenov, Ramiza K. Rastsvetaeva, Gerhard Möhn, Vyacheslav S. Rusakov, Igor V. Pekov, Ricardo Scholz, Tatiana A. Eremina, Dmitriy I. Belakovskiy and Joachim A. Lorenz
*E-mail: chukanov@icp.ac.ru
Voltaite group
Cubic: $Fd\bar{3}c$; structure determined
a = 27.161(1) Å
9.56(29), 6.77(37), 5.53(61), 3.532(68), 3.392(100), 3.034(45), 2.845(30), 2.531(24)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration numbers 4780/1 (holotype) and 4780/2 (cotype)
How to cite: Chukanov, N.V., Aksenov, S.M., Rastsvetaeva, R.K., Möhn, G., Rusakov, V.S., Pekov, I.V., Scholz, R., Eremina, T.A., Belakovskiy, D.I. and Lorenz, J.A. (2016) Magnesiovoltaite, IMA 2015-095. CNMNC Newsletter No. 29, February 2016, page 203; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-096**
Ferri-fluoro-katophorite
$Na(NaCa)(Mg_4Fe^{3+})(Si_7Al)O_{22}F_2$
Bear Lake diggings, 8.4 km W of Tory Hill, Monmouth Township, Bancroft District, Ontario, Canada (44°57′48″N, 78°19′6″W)
Roberta Oberti*, Massimo Boiocchi, Frank C. Hawthorne, Neil A. Ball and Robert F. Martin
*E-mail: oberti@crystal.unipv.it
Amphibole supergroup
Monoclinic: *C*2/*m*; structure determined
a = 9.887(3), *b* = 18.023(9), *c* = 5.292(2) Å, β = 104.66(3)°

https://doi.org/10.1180/minmag.2016.080.080 Published online by Cambridge University Press

8.449(69), 3.388(74), 3.139(72), 2.739(47), 2.708(100), 2.591(53), 2.540(65), 2.165(45)
Type material is deposited in the mineralogical collections of the Department of Natural History, Royal Ontario Museum, Canada, catalogue number M57071
How to cite: Oberti, R., Boiocchi, M., Hawthorne, F.C., Ball, N.A. and Martin, R.F. (2016) Ferri-fluoro-katophorite, IMA 2015-096. CNMNC Newsletter No. 29, February 2016, page 203; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-097**
Alwilkinsite-(Y)
$Y(UO_2)_3(SO_4)_2O(OH)_3(H_2O)_7 \cdot 7H_2O$
Blue Lizard Mine, Red Canyon, White Canyon District, San Juan Co., Utah, USA (37°33′26″N, 110°17′44″W)
Anthony R. Kampf*, Jakub Plášil, Jiří Čejka, Joe Marty, Radek Škoda and Ladislav Lapčák
*E-mail: akampf@nhm.org
New structure type
Orthorhombic: $P2_12_12_1$ structure determined
a = 11.6194(5), b = 12.4250(6), c = 19.449(1) Å
9.88(100), 7.47(13), 5.621(17), 4.483(18), 3.886 (14), 3.322(46), 3.223(13), 3.145(16)
Type material is deposited in the mineralogical collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 65629
How to cite: Kampf, A.R., Plášil, J., Čejka, J., Marty, J., Škoda, R. and Lapčák, L. (2016) Alwilkinsite-(Y), IMA 2015-097. CNMNC Newsletter No. 29, February 2016, page 204; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-098**
Ottohahnite
$Na_6(UO_2)_2(SO_4)_5(H_2O)_7 \cdot 1.5H_2O$
Blue Lizard Mine, Red Canyon, White Canyon District, San Juan Co., Utah, USA (37°33′26″N, 110°17′44″W)
Anthony R. Kampf*, Jakub Plášil, Anatoly V. Kasatkin, Joe Marty and Jiří Čejka
*E-mail: akampf@nhm.org
Related to klaprothite (2015-087) and péligotite (2015-088)
Triclinic: $P\overline{1}$; structure determined
a = 9.9756(2), b = 11.6741(2), c = 14.290(1) Å, α = 113.518(8), β = 104.282(7), γ = 91.400(6)°
6.81(41), 6.21(100), 4.650(39), 3.462(52), 3.156(35), 2.977(63), 2.913(42), 1.908(35)
Coype material is deposited in the mineralogical collections of the Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue numbers 65610, 65611, 65614 and 65617, and the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4782/1
How to cite: Kampf, A.R., Plášil, J., Kasatkin, A.V., Marty, J. and Čejka, J. (2016) Ottohahnite, IMA 2015-098. CNMNC Newsletter No. 29, February 2016, page 204; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-099**
Écrinsite
$AgTl_3Pb_4As_{11}Sb_9S_{36}$
Jas Roux deposit, Pelvoux Massif, Hautes-Alpes department, France (44°48′45″N, 6°19′18″E)
Dan Topa*, Uwe Kolitsch, Emil Makovicky, George Favreau, Chris Stanley, Vincent Bourgoin and Jean-Claude Boulliard
*E-mail: dan.topa@nhm-wien.ac.at
Sartorite homologous series
Triclinic: $P\overline{1}$; structure determined
a = 8.080(2), b = 8.533(2), c = 22.613(4) Å, α = 90.23(3), β = 97.17(3), γ = 90.83(3)°
11.22(65), 4.14(68), 3.86(61), 3.72(92), 3.56(100), 3.53(80), 2.794(65), 2.133(60)
Cotype material is deposited in the mineralogical collections of the Naturhistorisches Museum Wien, Austria, catalogue number N 9870
How to cite: Topa, D., Kolitsch, U., Makovicky, E., Favreau, G., Stanley, C., Bourgoin, V. and Boulliard, J.-C. (2016) Écrinsite, IMA 2015-099. CNMNC Newsletter No. 29, February 2016, page 204; *Mineralogical Magazine*, **80**, 199–205.

IMA No. **2015-101**
Marklite
$Cu_5(CO_3)_2(OH)_6 \cdot 6H_2O$
In the dumps of the Friedrich-Christian mine, ca. 5 km SW of Schapbach, Wildschapbach valley, Black Forest Mts. (Schwarzwald), Baden-Würtenberg, Germany (48°23′13″N, 8°16′29″E)
Jakub Plášil*, Anthony R. Kampf, Melanie Keuper and Radek Škoda
*E-mail: plasil@fzu.cz

https://doi.org/10.1180/minmag.2016.080.080 Published online by Cambridge University Press

New structure type
Monoclinic: $P2_1/c$; structure determined
a = 12.137(2), b = 6.3832(6), c = 10.579(1) Å, β = 112.42(1)°
11.23(100), 5.61(41), 5.31(32), 3.743(16), 3.054(17), 2.675(30), 2.241(27), 1.539(21)
Type material is deposited in the mineralogical collections of the Eberhard Karls Universität, Tübingen, Germany, catalogue number 3586 T, and the Natural History Museum of Los Angeles County, Los Angeles, USA, catalogue number 65630
How to cite: Plášil, J., Kampf, A.R., Keuper, M. and Škoda, R. (2016) Marklite, IMA 2015-101. CNMNC Newsletter No. 29, February 2016, page 204; *Mineralogical Magazine*, **80**, 199–205.

NOMENCLATURE PROPOSALS APPROVED IN JANUARY 2016

IMA 15-H: Diomignite (discredited)
Proposal 15-H is accepted, and diomignite is officially discredited. The original crystals in fluid inclusions were misidentified zabuyelite.

IMA 15-L: Claringbullite (redefined) and **Fejerite** (discredited)
Proposal 15-L is accepted, and claringbullite is redefined as $Cu_4FCl(OH)_6$. Fejerite, recently approved with IMA number 2012–014, is consequently discredited.

REVISED CHEMICAL FORMULA

Soon after the approval of the new mineral melcherite (IMA No. 2015-018; see CNMNC Newsletter 25), the authors of the proposal have communicated results of subsequent analytical work on this mineral, which verifies essential contents of sodium. The new data were examined carefully by the CNMNC officers and were found reliable. The revised simplified formula, $Ba_2Na_2Mg[Nb_6O_{19}]\cdot 6H_2O$, has been approved executively.

https://doi.org/10.1180/minmag.2016.080.080 Published online by Cambridge University Press