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CNMNC Newsletter

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

NEWSLETTER 25

New minerals and nomenclature modifications approved in 2015

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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

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

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NEW MINERAL PROPOSALS APPROVED IN APRIL 2015

No. **2014-103**
Calciomurmanite
$(Na,\square)_2Ca(Ti,Mg,Nb)_4[Si_2O_7]_2O_2(OH,O)_2(H_2O)_4$
Flora Mountain, Lovozero alkaline complex, Kola peninsula, Russia (holotype); Eveslogchorr Mountain, Khibiny alkaline complex, Kola peninsula, Russia (cotype)
Inna S. Lykova, Igor V. Pekov*, Nikita V. Chukanov, Dmitry I. Belakovskiy, Vasiliy O. Yapaskurt, Natalia V. Zubkova, Sergey N. Britvin and Gerald Giester
*E-mail: igorpekov@mail.ru
The calcium analogue of murmanite
Triclinic: $P\bar{1}$; structure determined
a = 5.3470(6), b = 7.0774(7), c = 12.146(1) Å, α = 91.827(4), β = 107.527(4), γ = 90.155(4)º
11.69(100), 5.87(68), 4.251(89), 3.825(44), 2.940(47), 2.900(79), 2.752(26), 2.659(39)
Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia, catalogue number ST4994; cotype material is deposited in the collections of the Bel'kov Museum of Geology and Mineralogy, Kola Science Centre of the Russian Academy of Sciences, Apatity, Russia, catalogue number 3667
How to cite: Lykova, I.S., Pekov, I.V., Chukanov, N.V., Belakovskiy, D.I., Yapaskurt, V.O., Zubkova, N.V., Britvin, S.N. and Giester, G. (2015) Calciomurmanite, IMA 2014-103. CNMNC Newsletter No. 25, June 2015, page 530; *Mineralogical Magazine*, **79**, 529–535.

No. **2014-104**
Dravertite
$CuMg(SO_4)_2$
Arsenatnaya fumarole, Second scoria cone of the Northern Breakthrough of the Great Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka Peninsula, Far-Eastern Region, Russia (55º41′N, 160º14′E, 1200 m asl)
Igor V. Pekov*, Natalia V. Zubkova, Atali A. Agakhanov, Vasiliy O. Yapaskurt, Nikita V. Chukanov, Dmitry I. Belakovskiy, Evgeny G. Sidorov and Dmitry Y. Pushcharovsky
*E-mail: igorpekov@mail.ru
Chemically and structurally related to chalcocyanite
Monoclinic: $P2_1/n$; structure determined
a = 4.8141(3), b = 8.4443(5), c = 6.7731(4) Å, β = 94.598(5)º
4.175(68), 3.666(64), 3.579(63), 3.443(59), 2.719(41), 2.637(100), 2.430(68), 1.791(24)
Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia, registration number 4674/1
How to cite: Pekov, I.V., Zubkova, N.V., Agakhanov, A.A., Yapaskurt, V.O., Chukanov, N.V., Belakovskiy, D.I., Sidorov, E.G. and Pushcharovsky, D.Y. (2015) Dravertite, IMA 2014-104. CNMNC Newsletter No. 25, June 2015, page 530; *Mineralogical Magazine*, **79**, 529–535.

No. **2014-105**
Honzaite
$Ni_2(AsO_3OH)_2{\cdot}5H_2O$
Jáchymov ore district, western Bohemia, Czech Republic
Jiří Sejkora*, Jakub Plášil and Anthony R. Kampf
E-mail: jiri_sejkora@nm.cz
Isostructural with burgessite
Monoclinic: $P2_1/n$; structure determined
a = 4.6736(6), b = 9.296(1), c = 12.592(1) Å, β = 99.115(8)º
7.431(100), 6.215(18), 3.717(9), 3.360(3), 3.254(7), 3.078(7), 3.005(5), 2.568(7)
Type material is deposited in the collections of the Department of Mineralogy and Petrology, National Museum of Prague, Prague, Czech Republic, catalogue number P1N 38.099
How to cite: Sejkora, J., Plášil, J. and Kampf, A.R. (2014) Honzaite, IMA 2014-105. CNMNC Newsletter No. 25, June 2015, page 530; *Mineralogical Magazine*, **79**, 529–535.

No. **2014-106**
Cryptochalcite
$K_2Cu_5O(SO_4)_5$
Arsenatnaya fumarole, Second scoria cone of the Northern Breakthrough of the Great Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka Peninsula, Far-Eastern Region, Russia (55º41′N, 160º14′E, 1200 m asl)
Igor V. Pekov*, Natalia V. Zubkova, Atali A. Agakhanov, Vasiliy O. Yapaskurt, Dmitry I. Belakovskiy, Marina F. Vigasina, Evgeny G. Sidorov and Dmitry Y. Pushcharovsky
*E-mail: igorpekov@mail.ru
New structure type

Triclinic: $P\bar{1}$; structure determined
a = 10.0045(3), b = 12.6663(4), c = 14.4397(5) Å, α = 102.194(3), β = 101.372(3), γ = 90.008(3)º
13.9(30), 6.95(100), 6.22(45), 3.93(65), 3.76(30), 3.39(30), 3.19(35), 2.500(40)
Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia, registration number 4675/1
How to cite: Pekov, I.V., Zubkova, N.V., Agakhanov, A.A., Yapaskurt, V.O., Belakovskiy, D.I., Vigasina, M.F., Sidorov, E.G. and Pushcharovsky, D.Y. (2015) Cryptochalcite, IMA 2014-106. CNMNC Newsletter No. 25, June 2015, page 530; *Mineralogical Magazine*, **79**, 529–535.

No. **2014-107**
Taniajacoite
$SrCaMn_2^{3+}Si_4O_{11}(OH)_4{\cdot}2H_2O$
N'Chwaning III mine, Kalahari Manganese Field, Northern Cape Province, South Africa (27º7′50.81″S, 22º50′28.83″E)
Hexiong Yang*, Xiangping Gu, Robert T. Downs and Xiande Xie
*E-mail: hyang@u.arizona.edu
Isostructural with ruizite
Triclinic: $C1$; structure determined
a = 9.1376(6), b = 6.2567(4), c = 12.0045(7) Å, α = 90.019(4), β = 91.641(4), γ = 89.899(4)º
4.224(30), 3.131(88), 2.980(63), 2.902(33), 2.771(100), 2.541(31), 2.534(64), 2.367(43)
Co-type material is deposited in the collections of the Mineral Museum of the University of Arizona, Tucson, AZ, USA, catalogue number 20009, and the RRUFF Project, deposition number R140945
How to cite: Yang, H., Gu, X., Downs, R.T. and Xie, X. (2015) Taniajacoite, IMA 2014-107. CNMNC Newsletter No. 25, June 2015, page 531; *Mineralogical Magazine*, **79**, 529–535.

No. **2014-108**
Bubnovaite
$K_2Na_8Ca(SO_4)_6$
In volcanic fumaroles of the 2012-2013 Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka Peninsula, Far-Eastern Region, Russia (55º41′N, 160º14′E)
Liudmila A. Gorelova, Lidiya P. Vergasova, Sergey V. Krivovichev*, Evgenia Y. Avdontseva, Svetlana V. Moskaleva, Stanislav K. Filatov and Gennadii A. Karpov
*E-mail: s.krivovichev@spbu.ru
Structurally related to glaserite
Trigonal: $P31c$; structure determined
a = 10.804(3), c = 22.011(6) Å
3.943(80), 2.894(35), 2.868(62), 2.718(91), 2.707(100), 2.647(10), 2.231(6), 1.969(21)
Type material is deposited in the collections of the Mineralogical Museum, St. Petersburg State University, St. Petersburg, Russia, sample number 1/19635
How to cite: Gorelova, L.A., Vergasova, L.P., Krivovichev, S.V., Avdontseva, E.Y., Moskaleva, S.V., Filatov, S.K. and Karpov, G.A. (2015) Bubnovaite, IMA 2014-108. CNMNC Newsletter No. 25, June 2015, page 531; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-001**
Beckettite
$Ca_2V_6Al_6O_{20}$
Allende CV3 meteorite, Pueblito de Allende, Chihuahua, Mexico (26º58′N, 105º19′W)
Chi Ma*, Julie Paque and Oliver Tschauner
*E-mail: chi@gps.caltech.edu
Sapphirine supergroup
Triclinic: $P\bar{1}$
a = 10.367, b = 10.756, c = 8.895 Å, α = 106, β = 96, γ = 124.7º
2.684(60), 2.683(68), 2.544(100), 2.541(81), 2.540(75), 2.104(84), 2.103(84), 2.089 (89)
Type material is deposited in the collections of the National Museum of Natural History, Smithsonian Institution, Washington, DC, USA, registration number USNM 7617
How to cite: Ma, C., Paque, J. and Tschauner, O. (2015) Beckettite, IMA 2015-001. CNMNC Newsletter No. 25, June 2015, page 531; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-002**
Apexite
$NaMg(PO_4){\cdot}9H_2O$
Apex mine, about 4.5 km SSW of Austin, Lander Co., Nevada, USA (39º27'30"N, 117º05'56"W)
Anthony R. Kampf*, Stuart J. Mills, Barbara P. Nash, Martin Jensen and Tony Nikischer
*E-mail: akampf@nhm.org
New structure type
Triclinic: $P\bar{1}$; structure determined
a = 6.9296(7), b = 11.977(1), c = 14.944(2) Å, α = 92.109(6), β = 102.884(7), γ = 105.171(7)º

14.63(35), 5.11(61), 4.68(75), 4.301(96), 4.008(44), 2.876(46), 2.762(100), 2.507(30)
Co-type 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 65563 and 65564, and the Museum Victoria, Melbourne, Victoria, Australia, catalogue number M53381
How to cite: Kampf, A.R., Mills, S.J., Nash, B.P., Jensen, M. and Nikischer, T. (2015) Apexite, IMA 2015-002. CNMNC Newsletter No. 25, June 2015, page 531; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-003**
Eleonorite
$Fe_6^{3+}(PO_4)_4O(OH)_4{\cdot}6H_2O$
Eleonore mine, Rodheim-Bieber, Gießen, Hesse, Germany
Nikita V. Chukanov*, Sergey M. Aksenov, Ramiza K. Rastsvetaeva, Christof Schäfer, Igor V. Pekov, Dmitry I. Belakovskiy, Ricardo Scholz, Luiz C.A. de Oliveira and Sergey N. Britvin
*E-mail: nikchukanov@yandex.ru
Closely related to beraunite
Monoclinic: *C*2/*c*; structure determined
a = 20.679(10), *b* =5.148(2), *c* =19.223(9) Å, β = 93.574(9)º
10.41(100), 9.67(38), 7.30(29), 4.816(31), 4.424(13), 3.432(18), 3.197(18), 3.071(34)
Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia, registration numbers 4684/1 and 4684/2
How to cite: Chukanov, N.V., Aksenov, S.M., Rastsvetaeva, R.K., Schäfer, C., Pekov, I.V., Belakovskiy, D.I., Scholz, R., de Oliveira, L.C.A. and Britvin, S.N. (2015) Eleonorite, IMA 2015-003. CNMNC Newsletter No. 25, June 2015, page 532; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-004**
Albertiniite
$Fe^{2+}(SO_3){\cdot}3H_2O$
Monte Fal mine, near Coiromonte, Armeno, Novara Province, Italy (45º50′52.37″N, 8º29′1.13″E)
Pietro Vignola*, G. Diego Gatta, Nicola Rotiroti, Paolo Gentile, Frédéric Hatert, Maxime Baijot, Danilo Bersani, Andrea Risplendente and Alessandro Pavese
*E-mail: pietro.vignola@idpa.cnr.it
Chemically it is the Fe^{2+} analogue of gravegliaite
Monoclinic: $P2_1/n$; structure determined
a = 6.633(1), *b* = 8.831(1), *c* = 8.773(2) Å, β = 96.106 (8)º
6.167(14), 5.533(27), 4.998(14), 4.721(100), 4.353(13), 3.897(12), 3.539(94), 2.830(12)
Co-type material is deposited in the mineralogical collection of the Museo Civico di Storia Naturale, Milano, Italy (number MM 38728), and the Laboratory of Mineralogy, University of Liège, Belgium (number 20393)
How to cite: Vignola, P., Gatta, G.D., Rotiroti, N., Gentile, P., Hatert, F., Baijot, M., Bersani, D., Risplendente, A. and Pavese, A. (2015) Albertiniite, IMA 2015-004. CNMNC Newsletter No. 25, June 2015, page 532; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-005**
Pauladamsite
$Cu_4(SeO_3)(SO_4)(OH)_4{\cdot}2H_2O$
Santa Rosa mine, Darwin district, Inyo Co., California, USA (36º25′7″N, 117º43′26″W)
Anthony R. Kampf*, Stuart J. Mills and Barbara P. Nash
*E-mail: akampf@nhm.org
New structure type
Triclinic: $P\bar{1}$; structure determined
a = 6.0742(7), *b* = 8.415(1), *c* = 10.780(1) Å, α = 103.665(7), β = 95.224(7), γ = 90.004(6)º
10.5(100), 5.81(50), 3.994(67), 3.431(23), 2.692(57), 2.485(39), 2.396(32), 1.513(20)
Co-type 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 65569, 65570, 65571, 65572 and 65573
How to cite: Kampf, A.R., Mills, S.J. and Nash, B.P. (2015) Pauladamsite, IMA 2015-005. CNMNC Newsletter No. 25, June 2015, page 532; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-006**
Addibischoffite
$Ca_2Al_6Al_6O_{20}$
Acfer 214 meteorite, Tanezrouft, Tamanghasset Province, Algeria
Chi Ma* and Alexander N. Krot
*E-mail: chi@gps.caltech.edu
Sapphirine supergroup

Triclinic: $P\bar{1}$
a = 10.367, b = 10.756, c = 8.895 Å, α = 106, β = 96, γ = 124.7º
2.937(59), 2.683(66), 2.544(100), 2.541(78), 2.540(71), 2.104(78), 2.103(78), 2.089(83)
Type material is deposited in the G.J. Wasserburg Meteorite Collection (section Acfer 214-1580) of the Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, California 91125, USA
How to cite: Ma, C. and Krot, A.N. (2015) Addibischoffite, IMA 2015-001. CNMNC Newsletter No. 25, June 2015, page 532; *Mineralogical Magazine*, **79**, 529–535.

NEW MINERAL PROPOSALS APPROVED IN MAY 2015

No. **2014-109**
Perettiite-(Y)
$Y_2Mn_4FeSi_2B_8O_{24}$
Momeik Township, Kyaukme District, Shan State, Myanmar
Rosa Micaela Danisi, Thomas Armbruster*, Hao Wang, Detlef Günther, Mariko Nagashima, Eric Reusser and Willy Bieri
*E-mail: armbruster@krist.unibe.ch
New structure type
Orthorhombic: *Pmna*
a = 12.8252(5), b = 4.6187(2), c = 12.8252(5) Å
4.63(52), 4.08(28), 3.05(100), 2.64(67), 2.54(60), 1.87(33), 1.84(52), 1.44(25)
Type material is deposited in the collections of the Museum of Natural History Bern, Bernastrasse 5, 3012 Bern, Switzerland, specimen number NMBE-43035
How to cite: Danisi, R.M., Armbruster, T., Wang, H., Günther, D., Nagashima, M., Reusser, E. and Bieri, W. (2015) Perettiite-(Y), IMA 2014-109. CNMNC Newsletter No. 25, June 2015, page 533; *Mineralogical Magazine*, **79**, 529–535.

No. **2014-110**
Tsangpoite
$Ca_5(PO_4)_2(SiO_4)$
D'Orbigny angrite, D'Orbigny, Coronel Suaréz, Buenos Aires, Argentina (37º40′S, 61º39′W)
Shyh-Lung Hwang*, Pouyan Shen, Hao-Tsu Chu, Tzen-Fu Yui, Maria-Eugenia Varela and Yoshiyuki Iizuka
*E-mail: slhwang@mail.ndhu.edu.tw
A dimorph of silicocarnotite
Hexagonal: $P6_3/m$, $P6_3$, or $P6_322$
a = 9.488(4), c = 6.991(6) Å
3.94, 3.50, 3.10, 2.83, 2.82, 2.74, 2.66, 2.28
Type material is deposited in the collections of the Naturhistorisches Museum Wien, Vienna, Austria, inventory number Section D'Orbigny CN1172-NH Wien
How to cite: Hwang, S.-L., Shen, P., Chu, H.-T., Yui, T.-F., Varela, M.E. and Iizuka, Y. (2015) Tsangpoite, IMA 2014-110. CNMNC Newsletter No. 25, June 2015, page 533; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-008**
Norilskite
$(Pd,Ag)_{2-x}Pb$ ($0.08 \leqslant x \leqslant 0.11$)
Talnakh deposit (Mayak Mine), Noril'sk deposits, Russia (69º30′20″N, 88º27′17″E)
Anna Vymazalová*, František Laufek, Sergei F. Sluzhenikin, Chris J. Stanley, Patricie Haladová and Milan Drábek
*E-mail: anna.vymazalova@geology.cz
New structure type
Trigonal: $P3_121$; structure determined
a = 8.9656(2), c = 17.2801(4) Å
3.220(29), 2.313(91), 2.241(100), 1.610(28), 1.308(38), 1.294(18), 1.211(37), 0.963(44)
Co-type material is deposited in the collections of the Department of Earth Sciences, Natural History Museum, London, UK, catalogue No BM 2015,1 and the Fersman Mineralogical Museum, Moscow, Russia, catalogue No 4694/1
How to cite: Vymazalová, A., Laufek, F., Sluzhenikin, S.F., Stanley, C.J., Haladová, P. and Drábek, M. (2015) Norilskite, IMA 2015-008. CNMNC Newsletter No. 25, June 2015, page 533; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-009**
Meieranite
$Na_2Sr_3MgSi_6O_{17}$
Wessels mine, Kalahari Manganese Fields, Northern Cape Province, South Africa (27º6′51.82″S, 22º51′18.31″E)
Hexiong Yang*, Xiangping Gu, Robert T. Downs, Stanley H. Evans, Jaco J. van Nieuwenhuizen, Robert M. Lavinsky and Xiande Xie
*E-mail: hyang@u.arizona.edu
Related to the nordite group of minerals
Orthorhombic: $P2_1nb$; structure determined
a = 7.9380(2), b = 10.4923(3), c = 18.2560(6) Å

3.166(27), 2.990(100), 2.800(38), 2.425(42), 2.391(21), 1.853(27), 1.778(21), 1.749(47)
Co-type material is deposited in the collections of the Mineral Museum of the University of Arizona, USA, Catalogue # 20011, and the RRUFF Project, deposition # R140947
How to cite: Yang, H., Gu, X., Downs, R.T., Evans, S.H., van Nieuwenhuizen, J.J., Lavinsky, R.M. and Xie, X. (2015) Meieranite, IMA 2015-009. CNMNC Newsletter No. 25, June 2015, page 533; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-010**
Sulfhydrylbystrite
$Na_5K_2Ca[Al_6Si_6O_{24}](S_5)^{2-}(SH)^-$
Malaya Bystraya lazurite deposit, Malaya Bystraya River Valley, Lake Baikal area, Eastern Siberian Region, Russia (51º40′50″N, 103º25′18″E, 980 m asl)
Anatoly N. Sapozhnikov, Ekaterina V. Kaneva*, Ludmila F. Suvorova, Valery I. Levitsky, Larisa A. Ivanova, Mikhail A. Mitichkin and Igor G. Barash
*E-mail: kev604@mail.ru
Cancrinite group
Trigonal: *P*31*c*; structure determined
a = 12.9567(6), *c* = 10.7711(5) Å
4.857(48), 3.948(38), 3.739(94), 3.331(100), 2.715(32), 2.692(56), 2.487(28), 2.156(27)
Type material is deposited in the collections of the Mineralogical Museum of St.-Petersburg State University, 7/9 Universitetskaya nab., Saint-Petersburg, 199034, Russia, catalogue number 1/19636
How to cite: Sapozhnikov, A.N., Kaneva, E.V., Suvorova, L.F., Levitsky, V.I., Ivanova, L.A., Mitichkin, M.A. and Barash, I.G. (2015) Sulfhydrylbystrite, IMA 2015-010. CNMNC Newsletter No. 25, June 2015, page 534; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-011**
Czochralskiite
$Na_4Ca_3Mg(PO_4)_4$
Morasko iron meteorite, Poznan, Wielkopolskie, Poland (52º29′N, 16º55′E)
Lukasz Karwowski, Ryszard Kryza*, Andrzej Muszyński, Joachim Kusz, Katarzyna Helios, Piotr Drożdżewski and Evgeny V. Galuskin
*E-mail: ryszard.kryza@ing.uni.wroc.pl
Related to buchwaldite and brianite
Orthorhombic: *Pnma*; structure determined
a = 17.9230(2), *b* = 10.7280(2), *c* = 6.7794(1) Å
3.811(50), 3.741(31), 2.735(100), 2.682(61), 2.610(83), 2.301(14), 2.249(17)1.906(43)
Type material is deposited in the collections of the Mineralogical Museum of the University of Wrocław, Cybulskiego 30, 50-205 Wrocław, Poland, catalogue number MM UWr IV7870
How to cite: Karwowski, L., Kryza, R., Muszyński, A., Kusz, J., Helios, K., Drożdżewski, P. and Galuskin, E. (2015) Czochralskiite, IMA 2015-011. CNMNC Newsletter No. 25, June 2015, page 534; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-013**
Alexkhomyakovite
$K_6(Ca_2Na)(CO_3)_5Cl{\cdot}6H_2O$
Koashva open pit, Vostochnyi (Eastern) apatite mine, Mt. Koashva, Khibiny massif, Kola peninsula, Russia (67º37′N, 34º0′E)
Igor V. Pekov*, Natalia V. Zubkova, Vasiliy O. Yapaskurt, Inna S. Lykova, Nikita V. Chukanov, Dmitry I. Belakovskiy, Sergey N. Britvin, Anna G. Turchkova and Dmitry Y. Pushcharovsky
*E-mail: igorpekov@mail.ru
New structure type
Hexagonal: $P6_3/mcm$; structure determined
a = 9.2691(2), *c* = 15.8419(4) Å
7.96(27), 3.486(35), 3.011(100), 2.977(32), 2.676(36), 2.626(42), 2.206(26), 1.982(17)
Type material is deposited in the collections of the Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia, registration number 4696/1
How to cite: Pekov, I.V., Zubkova, N.V., Yapaskurt, V.O., Lykova, I.S., Chukanov, N.V., Belakovskiy, D.I., Britvin, S.N., Turchkova, A.G. and Pushcharovsky, D.Y. (2015) Alexkhomyakovite, IMA 2015-013. CNMNC Newsletter No. 25, June 2015, page 534; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-014**
Huizingite-(Al)
$[(NH_4)_9(SO_4)_2][(Al,Fe^{3+})_3(OH)_2(H_2O)_4(SO_4)_6]$
Huron River, north-central Ohio, 1.5 km west of Milan, Ohio, USA (41º17′42″N, 82º37′30″W)
Anthony R. Kampf*, R. Peter Richards, Barbara P. Nash, John Rakovan and James B. Murowchick
*E-mail: akampf@nhm.org
New structure type

Triclinic: $P\bar{1}$; structure determined
a = 9.7093(3), b = 10.4341(3), c = 10.7027(8) Å, α = 77.231(5), β = 74.860(5), γ = 66.104(5)°
8.82(60), 5.60(32), 5.037(69), 4.122(41), 3.534(38), 3.427(100), 3.204(68), 3.043(94)
Type material is deposited in the collections of Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007, USA, catalogue number 65576
How to cite: Kampf, A.R., Richards, R.P., Nash, B.P., Rakovan, J. and Murowchick, J.B. (2015) Huizingite-(Al), IMA 2015-014. CNMNC Newsletter No. 25, June 2015, page 534; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-017**
Decagonite
$Al_{71}Ni_{24}Fe_5$
Khatyrka meteorite, Koryak Upland, Koriak Autonomous Okrug, Russia
Luca Bindi* and Paul J. Steinhardt
*E-mail: luca.bindi@unifi.it
Known synthetic analogue
Decagonal: $P10_5/mmc$
It is not possible to give three-dimensional unit cell values for this mineral
3.765(50), 3.405(40), 2.332(25), 2.051(45), 2.024(100), 1.980(40), 1.801(30), 1.422(35)
Type material is deposited in the mineralogical collection of the Museo di Storia Naturale, Sezione di Mineralogia e Litologia, Università di Firenze, Via La Pira 4, I-50121 Firenze, Italy, catalogue number 3146/I
How to cite: Bindi, L. and Steinhardt, P.J. (2015) Decagonite, IMA 2015-017. CNMNC Newsletter No. 25, June 2015, page 535; *Mineralogical Magazine*, **79**, 529–535.

No. **2015-018**
Melcherite
$BaCa_2MgNb_6O_{19}\cdot 6H_2O$
Jacupiranga mine, Cajati county, São Paulo, Brazil (24º42′3″S, 48º7′57″W)
Marcelo B. Andrade, Daniel Atencio* and Luiz A.D. Menezes Filho
*E-mail: datencio@usp.br
Related to peterandresenite
Trigonal: $R\bar{3}$; structure determined
a = 9.0117(6), c = 23.399(2) Å
7.805(100), 7.410(14), 3.904(22), 3.852(21), 3.250(33), 2.952(13), 2.165(30), 2.160(12)
Type material is deposited in the collections of the Museu de Geociências, Instituto de Geociências, Universidade de São Paulo, Rua do Lago, 562, 05508-080 - São Paulo, SP, Brazil, specimen number DR982
How to cite: Andrade, M.B., Atencio, D. and Menezes Filho, L.A.D. (2015) Melcherite, IMA 2015-018. CNMNC Newsletter No. 25, June 2015, page 535; *Mineralogical Magazine*, **79**, 529–535.

NOMENCLATURE PROPOSALS APPROVED IN MAY 2015

IMA 15-F: Baumhauerite-2*a*
Proposal 15-F is accepted, and "baumhauerite-2*a*" is renamed "argentobaumhauerite".

IMA 15-G: Wernerbaurite and schindlerite
Proposal 15-G is accepted: wernerbaurite and schindlerite do not contain significant hydronium, but must be considered as ammonium-bearing decavanadate minerals. The simplified formula of wernerbaurite is $\{(NH_4)_2[Ca_2(H_2O)_{14}](H_2O)_2\}\{V_{10}O_{28}\}$, and the simplified formula of schindlerite is $\{(NH_4)_4Na_2(H_2O)_{10}\}\{V_{10}O_{28}\}$.