Mineralogical Magazine, August 2015, Vol. 79(4), pp. 941–947

CNMNC Newsletter

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

NEWSLETTER 26

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

DOI: 10.1180/minmag.2015.079.4.05

NEW MINERAL PROPOSALS APPROVED IN JUNE 2015

IMA No. **2015-012**
Puninite
$Na_2Cu_3O(SO_4)_3$
Glavnaya Tenoritovaya ("Major Tenorite") fumarole, Second Scoria Cone of the Northern Breakthrough of the Great Fissure Tolbachik Eruption, Kamchatka, Russia (55º41′N, 160º14′E)
Oleg I. Siidra*, Evgeny V. Nazarchuk, Evgeniya A. Lukina, Anatoly N. Zaitsev, Evgeniya Y. Avdontseva, Lidiya P. Vergasova, Stanislav K. Filatov, Natalia S. Vlasenko, Rick Turner and Gennady A. Karpov
*E-mail: o.siidra@spbu.ru
Euchlorine group
Monoclinic: *C*2/*c*; structure determined
a = 17.388(1), *b* = 9.4009(8), *c* = 14.404(1) Å, β = 112.039(2)º
8.058(100), 6.675(19), 6.466(28), 4.398(14), 4.247(17), 3.839(34), 2.853(29), 2.724(15)
Type material is deposited in the collections of the Mineralogical Museum, Department of Mineralogy, St Petersburg State University, St Petersburg, Russia, specimen number 19638
How to cite: Siidra, O.I., Nazarchuk, E.V., Lukina, E.A., Zaitsev, A.N., Avdontseva, E.Y., Vergasova, L.P., Filatov, S.K., Vlasenko, N.S., Turner, R. and Karpov, G.A. (2015) Puninite, IMA 2015-012. CNMNC Newsletter No. 26, August 2015, page 942; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-016**
Batievaite-(Y)
$Y_2Ca_2Ti(Si_2O_7)_2(OH)_2(H_2O)_4$
Sakharjok massif, Kola Peninsula, Murmansk Oblast, Russia (67º41′40.4″N, 36º27′04.3″E)
Lyudmila M. Lyalina*, Andrei A. Zolotarev, Ekaterina A. Selivanova, Yevgeny E. Savchenko, Sergey V. Krivovichev, Julia A. Mikhailova, Galiyabanu I. Kadyrova and Dmitry R. Zozulya
*E-mail: lialina@geoksc.apatity.ru
Rosenbuschite group
Triclinic: $P\bar{1}$; structure determined
a = 9.4024(8), *b* = 5.5623(5), *c* = 7.3784(6) Å, α = 89.919(2), β = 101.408(2), γ = 96.621(2)º
9.145(17), 7.238(36), 4.350(23), 4.042(16), 3.745(13), 3.061(30), 2.991(100), 2.819(16)
Type material is deposited in the collections of the Geological and the Mineralogical Museum of the Geological Institute of the Kola Science Centre, Apatity, Russia, No. GIM 7389
How to cite: Lyalina, L.M., Zolotarev, A.A., Selivanova, E.A., Savchenko, Y.E., Krivovichev, S.V., Mikhailova, J.A., Kadyrova, G.I. and Zozulya, D.R. (2015) Batievaite-(Y), IMA 2015-016. CNMNC Newsletter No. 26, August 2015, page 942; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-019**
Saranchinaite
$Na_2Cu(SO_4)_2$
Naboko cinder cone, Great Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka Peninsula, Far-Eastern Region, Russia (55º46′06″N, 160º18′59″E, 1650 m asl)
Oleg I. Siidra*, Evgeny V. Nazarchuk, Evgeniya A. Lukina, Atali A. Agakhanov, Evgeniya Y. Avdontseva, Roman A. Kayukov, Lidiya P. Vergasova, Stanislav K. Filatov and Gennady A. Karpov
*E-mail: o.siidra@spbu.ru
New structure type
Monoclinic: $P2_1$; structure determined
a = 9.0109(5), *b* = 15.6355(8), *c* = 10.1507(5) Å, β = 107.08(1)º
7.546(87), 6.100(80), 4.829(85), 4.598(100), 3.548(86), 2.932(70), 2.729(66), 2.708(80)
Type material is deposited in the collections of the Mineralogical Museum, Department of Mineralogy, St Petersburg State University, St Petersburg, Russia, specimen number 19639
How to cite: Siidra, O.I., Nazarchuk, E.V., Lukina, E.A., Agakhanov, A.A., Avdontseva, E.Y., Kayukov, R.A., Vergasova, L.P., Filatov, S.K. and Karpov, G.A. (2015) Saranchinaite, IMA 2015-019. CNMNC Newsletter No. 26, August 2015, page 942; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-020**
Jörgkellerite
$(Na,\square)_3Mn^{3+}_3(PO_4)_2(CO_3)(O,OH)_2{\cdot}5H_2O$
Oldoinyo Lengai volcano, Arusha Region, Tanzania (2º45.7′S, 35º54.8′E)
Anatoly N. Zaitsev*, Sergey N. Britvin, Anton Kearsley, Thomas Wenzel and Caroline Kirk
*E-mail: burbankite@gmail.com
New structure type
Trigonal: $P\bar{3}$; structure determined
a = 11.201(2), *c* = 10.969(2) Å

10.970(100), 5.597(15), 4.993(8), 3.659(4), 3.234(6), 2.796(14), 2.724(20), 2.189(5)
Type material is deposited in the collections of the Mineralogy Department, St. Petersburg State University, St. Petersburg, Russia 199034, catalogue number 19640/1
How to cite: Zaitsev, A.N., Britvin, S.N., Kearsley, A., Wenzel, T. and Kirk, C. (2015) Jörgkellerite, IMA 2015-020. CNMNC Newsletter No. 26, August 2015, page 942; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-024**
Andychristyite
$PbCu^{2+}Te^{6+}O_5(H_2O)$
Aga mine, Otto Mountain, 1 mile NW of Baker, San Bernardino Co., California, USA (35.27215ºN, 116.09487ºW, 320 m asl)
Anthony R. Kampf*, Mark A. Cooper, Stuart J. Mills, Robert M. Housley and George R. Rossman
*E-mail: akampf@nhm.org
New structure type
Triclinic: $P\bar{1}$; structure determined
a = 5.322(3), b = 7.098(4), c = 7.511(4) Å, α = 83.486(7), β = 76.279(5), γ = 70.742(5)º
6.71(16), 4.76(17), 3.274(100), 2.641(27), 2.434(23), 1.674(17), 1.588(21), 1.513(15)
Type material is deposited in the collections of the Mineral Sciences Department, Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, California 90007, USA, catalogue number 65577
How to cite: Kampf, A.R., Cooper, M.A., Mills, S.J., Housley, R.M. and Rossman, G.R. (2015) Andychristyite, IMA 2015-024. CNMNC Newsletter No. 26, August 2015, page 943; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-025**
Penberthycroftite
$[Al_6(AsO_4)_3(OH)_9(H_2O)_5]\cdot 8H_2O$
Penberthy Croft mine, St. Hilary, Cornwall, England, UK (50.1414ºN, 5.4269ºW)
Ian E. Grey*, John Betterton, Anthony R. Kampf, Jason R. Price and Colin M. MacRae
*E-mail: Ian.Grey@csiro.au
Closely related to bettertonite
Monoclinic: $P2_1/c$; structure determined
a = 7.753(2), b = 24.679(5), c = 15.679(3) Å, β = 94.19(3)º
13.264(46), 12.402(16), 9.732(100), 7.420(28), 5.670(8), 5.423(6), 3.598(6), 3.562(6)
Co-type material is deposited in the mineralogical collections of the Natural History Museum, London, registration number BM.2015.3 and the Museum Victoria, Australia, registration number M53452
How to cite: Grey, I.E., Betterton, J., Kampf, A.R., Price, J.R. and MacRae, C.M. (2015) Penberthycroftite, IMA 2015-025. CNMNC Newsletter No. 26, August 2015, page 943; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-026**
Alfredopetrovite
$Al_2(Se^{4+}O_3)_3\cdot 6H_2O$
El Dragón mine, Antonio Quijarro Province, Potosí Department, Bolivia (19º49′15″S, 65º55′0″W)
Anthony R. Kampf*, Stuart J. Mills, Barbara P. Nash, Brent Thorne and Georges Favreau
*E-mail: akampf@nhm.org
New structure type
Hexagonal: $P\bar{6}2c$; structure determined
a = 8.818(3), c = 10.721(2) Å
7.63(55), 6.22(55), 5.37(26), 4.398(40), 3.404(100), 2.783(50), 2.606(22), 1.661(26)
Co-type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, USA, catalogue numbers 64111, 65578, 65579 and 65580, and the Museum Victoria, Australia, registration number M53004
How to cite: Kampf, A.R., Mills, S.J., Nash, B.P., Thorne, B. and Favreau, G. (2015) Alfredopetrovite, IMA 2015-026. CNMNC Newsletter No. 26, August 2015, page 943; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-027**
Ciriottiite
$Cu_4Pb_{19}(Sb,As,Bi)_{22}(As_2)S_{56}$
Esperance superiore tunnel, Tavagnasco mine, Tavagnasco, Torino Province, Piedmont, Italy (45.5416ºN, 7.8134ºE)
Luca Bindi*, Cristian Biagioni, Bruno Martini and Adrio Salvetti
*E-mail: luca.bindi@unifi.it
Closely related to sterryite
Monoclinic: $P2_1/n$; structure determined
a = 8.178(2), b = 28.223(6), c = 42.452(5) Å, β = 93.55(2)º
3.641(100), 3.595(35), 3.238(82), 3.208(57), 2.936(54), 2.928(37), 2.800(36), 2.043(78)
Type material is deposited in the mineralogical

collections of the Museo di Storia Naturale, Università di Firenze, Via La Pira 4, Florence, Italy, catalogue number 3161/I
How to cite: Bindi, L., Biagioni, C., Martini, B. and Salvetti, A. (2015) Ciriottiite, IMA 2015-027. CNMNC Newsletter No. 26, August 2015, page 943; *Mineralogical Magazine*, **79**, 941–947.

NEW MINERAL PROPOSALS APPROVED IN JULY 2015

IMA No. **2015-015**
Garronite-Na
$Na_6(Al_6Si_{10}O_{32})\cdot 8.5H_2O$
Poudrette quarry, Mont Saint-Hilaire, La Vallée-du-Richelieu RCM, Montérégie, Quebec, Canada (45º33′N, 73º08′W)
Joel D. Grice*, Ralph Rowe and Glenn Poirier
*E-mail: jgrice@mus-nature.ca
Zeolite supergroup
Monoclinic: *I*2; structure determined
a = 9.990(2), b = 10.032(2), c = 10.036(2) Å, β = 90.11(3)º
7.098(79), 5.026(32), 4.101(77), 3.172(100), 2.904(14), 2.685(64), 1.967(14), 1.721(11)
Type material is deposited in the mineralogical collections of the Canadian Museum of Nature, P.O. Box 3443, Station D, Ottawa, Ontario K1P 6P4, catalogue number CMCMC 86893
How to cite: Grice, J.D., Rowe, R. and Poirier, G. (2015) Garronite-Na, IMA 2015-015. CNMNC Newsletter No. 26, August 2015, page 944; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-023**
Strontioperloffite
$SrMn_2^{2+}Fe_2^{3+}(PO_4)_3(OH)_3$
Spring Creek copper mine, 10 km south of Wilmington, South Australia, Australia (32º43′52″S, 138º7′37″E)
Peter Elliott*
*E-mail: peter.elliott@adelaide.edu.au
The Sr analogue of perloffite
Monoclinic: $P2_1/m$; structure determined
a = 9.183(2), b = 12.349(3), c = 5.008(1) Å, β = 100.23(3)º
9.055(30), 5.122(25), 4.682(25), 3.158(100), 3.106(45), 2.892(35), 2.735(35), 1.921(69)
Type material is deposited in the mineralogical collections of the South Australian Museum, Adelaide, South Australia, registration number G34219
How to cite: Elliott, P. (2015) Strontioperloffite, IMA 2015-023. CNMNC Newsletter No. 26, August 2015, page 944; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-028**
Odigitriaite
$CsNa_5Ca_5[Si_{14}B_2O_{38}]F_2$
Darai-Pioz alkaline massif, Darai-Pioz river, Tadjikistan (39º27′N, 70º43′E)
Atali A. Agakhanov*, Leonid A. Pautov, Elena Sokolova, Frank C. Hawthorne, Vladimir Yu. Karpenko, Oleg. I. Siidra and Vyacheslav A. Muftakho
*E-mail: atali99@mail.ru
New structure type
Monoclinic: *C*2/*c*; structure determined
a = 16.652(5), b = 9.598(3), c = 22.120(7) Å, β = 92.87(1)º
4.66(33), 4.10(36), 3.85(31), 3.68(40), 3.62(45), 3.35(100), 3.25(35), 3.04(60)
Type material is deposited in the collections of the A.E. Fersman Mineralogical Museum, Moscow, Russia, registration number 4706/1.
How to cite: Agakhanov, A.A., Pautov, L.A., Sokolova, E., Hawthorne, F.C., Karpenko, V.Y., Siidra, O.I. and Muftakho, V.A. (2015) Odigitriaite, IMA 2015-028. CNMNC Newsletter No. 26, August 2015, page 944; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-029**
Kayrobertsonite
$[MnAl_2(PO_4)_2(OH)_2(H_2O)_4]\cdot 2H_2O$
Hagendorf South pegmatite, Hagendorf, Oberpfalz, Bavaria, Germany (49º39′1″N, 12º27′35″E); and the East dump of the Foote Lithium Company mine, Kings Mountain district, Cleveland Co., North Carolina, USA (35º12′40″N, 81º21′20″W)
Stuart J. Mills*, Ian E. Grey, Anthony R. Kampf, William D. Birch, Colin M. MacRae, Jason B. Smith and Erich Keck
*E-mail: smills@museum.vic.gov.au
The OH analogue of nordgauite
Triclinic: $P\bar{1}$; structure determined
a = 10.049(2), b = 10.205(2), c = 6.083(1) Å, α = 91.79(3), β = 99.70(3), γ = 98.02(3)º
10.047(100), 9.804(8), 7.629(44), 5.029(12), 4.695(10), 3.023(12), 2.952(10), 2.579(10)
Co-type material is deposited in the mineralogical collections of the Museum Victoria, Melbourne, Victoria, Australia, registered

numbers M53379, M53380 and M48795, and the Natural History Museum of Los Angeles County, Los Angeles, CA 90007, USA, registration numbers 65561 and 65562
How to cite: Mills, S.J., Grey, I.E., Kampf, A.R., Birch, W.D., MacRae, C.M., Smith, J.B. and Keck, E. (2015) Kayrobertsonite, IMA 2015-029. CNMNC Newsletter No. 26, August 2015, page 944; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-030**
Canosioite
$Ba_2Fe^{3+}(AsO_4)_2(OH)$
La Valletta mine, Vallone della Valletta, Canosio (CN), Maira Valley, Piedmont, Italy (44º23′54″N, 7º5′37″E, 2560 m asl)
Fernando Cámara*, Erica Bittarello, Marco E. Ciriotti, Fabrizio Nestola, Francesco Radica, Federico Massimi, Corrado Balestra and Roberto Bracco
*E-mail: fernando.camaraartigas@unito.it
Brackebuschite supergroup
Monoclinic: $P2_1/m$; structure determined
a = 7.8642(4), b = 6.1083(3), c = 9.1670(5) Å, β = 112.874(6)º
3.713(18), 3.304(100), 3.058(31), 3.047(59), 2.801(72), 2.337(24), 2.158(24), 1.921(18)
Type material is deposited in the mineralogical collections of the Museo Regionale di Scienze Naturali di Torino, Sezione di Mineralogia, Petrografia e Geologia, via Giovanni Giolitti 36, I-10123 Torino, Italy, catalogue number M/15941
How to cite: Cámara, F., Bittarello, E., Ciriotti, M.E., Nestola, F., Radica, F., Massimi, F., Balestra, C. and Bracco, R. (2015) Canosioite, IMA 2015-030. CNMNC Newsletter No. 26, August 2015, page 945; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-031**
Mendeleevite-(Nd)
$Cs_6[(Nd,REE)_{23}Ca_7](Si_{70}O_{175})(OH,F)_{19}(H_2O)_{16}$
Darai-Pioz alkaline massif, Darai-Pioz river, Tadjikistan (39º27′N, 70º43′E)
Atali A. Agakhanov*, Leonid A. Pautov, Elena Sokolova, Frank C. Hawthorne, Vladimir Y. Karpenko, Oleg. I. Siidra and Viktor K. Garanin
*E-mail: atali99@mail.ru
The Nd-analogue of mendeleevite-(Ce)
Cubic: $Pm3$
a = 21.9106(4) Å
15.63(55), 12.73(40), 11.01(100), 4.07(30), 3.47(42), 3.099(42), 2.192(42), 1.819(41)
Type material is deposited in the collections of the A.E. Fersman Mineralogical Museum, Moscow, Russia, registration number 4707/1
How to cite: Agakhanov, A.A., Pautov, L.A., Sokolova, E., Hawthorne, F.C., Karpenko, V.Y., Siidra, O.I. and Garanin, V.K. (2015) Mendeleevite-(Nd), IMA 2015-031. CNMNC Newsletter No. 26, August 2015, page 945; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-033**
Żabińskiite
$Ca[Al_{0.5}(Ta,Nb)_{0.5})](SiO_4)O$
Piława Górna migmatite-amphibolite quarry, Sudetes, ~50 km south-west of Wrocław, Poland (50º42′11.77″N, 16º44′12.36″E)
Adam Pieczka*, Frank C. Hawthorne, Chi Ma, George R. Rossman, Philippe Buffat, Bogdan Rutkowski, Eligiusz Szełęg, Adam Szuszkiewicz, Krzysztof Turniak, Krzysztof Nejbert and Sławomir S. Ilnicki
*E-mail: pieczka@agh.edu.pl
Isostructural with titanite
Triclinic: $A\bar{1}$; structure determined
a = 7.031(2), b = 8.692(2), c = 6.561(2) Å, α = 89.71(1), β = 113.83(1), γ = 90.35(1)º
4.939(65), 3.226(100), 3.001(98), 2.609(89), 2.283(20), 2.063(29), 1.740(18), 1.704(31)
Type material is deposited in the collections of the Mineralogical Museum of the University of Wrocław (Faculty of Earth Science and Environmental Management, Institute of Geological Sciences, Mineralogical Museum, 50-205 Wrocław, Cybulskiego 30, Poland), catalogue number MMWr IV7675
How to cite: Pieczka, A., Hawthorne, F.C., Ma, C., Rossman, G.R., Buffat, P., Rutkowski, B., Szełęg, E., Szuszkiewicz, A., Turniak, K., Nejbert, K. and Ilnicki, S.S. (2015) Żabińskiite, IMA 2015-033. CNMNC Newsletter No. 26, August 2015, page 945; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-035**
Oxo-mangani-leakite
$NaNa_2(Mn_4^{3+}Li)Si_8O_{22}O_2$
Hoskins mine, 3 km west of Grenfell, Forbes Co., New South Wales, Australia (33º53′45″S, 148º7′22″E)
Roberta Oberti*, Alberto Zanetti, Massimo Boiocchi, Frank C. Hawthorne and Neil A. Ball

*E-mail: oberti@crystal.unipv.it
Amphibole supergroup
Monoclinic: *C*2/*m*; structure determined
a = 9.875(5), *b* = 17.873(9), *c* = 5.295(2) Å, β = 104.74(3)º
8.423(100), 4.461(40), 4.451(40), 3.377(46), 3.134(37), 2.734(25), 2.694(37), 2.282(27)
Type material is deposited in the mineralogical collections of the Canadian Museum of Nature, Ottawa, catalogue number CNMNC86895
How to cite: Oberti, R., Zanetti, A., Boiocchi, M., Hawthorne, F.C. and Ball, N.A. (2015) Oxo-mangani-leakite, IMA 2015-035. CNMNC Newsletter No. 26, August 2015, page 945; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-036**
Kummerite
$Mn^{2+}Fe^{3+}Al(PO_4)_2(OH)_2{\cdot}8H_2O$
Cornelia Mine Open Cut of the Hagendorf-Süd pegmatite, Hagendorf, Oberpfalz, Bavaria, Germany (49º39′1″N, 12º27′35″E)
Ian E. Grey*, Erich Keck, W. Gus Mumme, Allan Pring, Colin M. MacRae, Finlay L. Shanks and Jason R. Price
*E-mail: Ian.Grey@csiro.au
Laueite supergroup
Triclinic: $P\bar{1}$; structure determined
a = 5.320(1), *b* = 10.670(3), *c* = 7.139(1) Å, α = 107.71(3), β = 111.40(3), γ = 71.84 (2)º
9.885(100), 6.476(20), 4.942(30), 3.988(9), 3.255(8), 3.235(9), 3.116(18), 2.873(11)
Type material is deposited in the mineralogical collections of the Museum Victoria, Melbourne, Victoria, Australia, registration number M53448
How to cite: Grey, I.E., Keck, E., Mumme, W.G., Pring, A., MacRae, C.M., Shanks, F.L. and Price, J.R. (2015) Kummerite, IMA 2015-036. CNMNC Newsletter No. 26, August 2015, page 946; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-037**
Gazeevite
$BaCa_6(SiO_4)_2(SO_4)_2O$
NW slope of the Shadil-Khokh volcano, Kel' volcanic area, Greater Caucasus Mountain Range, Southern Ossetia, Georgia (42º32.5′N, 44º18′E); Nahal Darga, Hatrurim Complex, Palestinian Autonomy, Israel (31º35′N, 35º22′E); Jabel Harmun, Hatrurim Complex, Palestinian Autonomy, Israel (31º46′N, 35º26′E); W slope of Har Parsa, Negev Desert, Israel (31º13′N, 35º17′E)
Evgeny V. Galuskin*, Frank Gfeller, Irina O. Galuskina, Thomas Armbruster, Yevgeny Vapnik, Joachim Kusz, Mateusz Dulski, Mariusz Gardocki and Piotr Dzierżanowski
*E-mail: evgeny.galuskin@us.edu.pl
Isostructural with zadovite and aradite
Trigonal: $R\bar{3}m$; structure determined
a = 7.1540(1), *c* = 25.1242(5) Å
6.015(36), 3.106(41), 3.074(47), 2.792(53), 2.778(100), 2.637(25), 2.205(43), 2.122(36)
Co-type material is deposited in the collections of the Museum of Natural History, Bernastr. 5, CH-3005 Bern, Switzerland, catalogue number NMBE 43125 (Jabel Harmun) and the Fersman Mineralogical Museum, Leninskiy pr., 18/2, 115162 Moscow, Russia, catalogue numbers 4713/1 (Shadil-Khokh), 4713/2 (Nahal Darga), 4713/3 (Jabel Harmun) and 4713/4 (Har Parsa)
How to cite: Galuskin, E.V., Gfeller, F., Galuskina, I.O., Armbruster, T., Vapnik, Y., Kusz, J., Dulski, M., Gardocki, M. and Dzierżanowski, P. (2015) Gazeevite, IMA 2015-037. CNMNC Newsletter No. 26, August 2015, page 946; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-038**
Grundmannite
$CuBiSe_2$
El Dragón mine, Quijarro province, Potosi, Bolivia (19º49.15′S, 65º55′W, 4100 m asl)
Hans-Jürgen Förster*, Luca Bindi and Christopher J. Stanley
*E-mail: forhj@gfz-potsdam.de
The Se analogue of emplectite
Orthorhombic: *Pnma*; structure determined
a = 6.6362(5), *b* = 4.2581(3), *c* = 15.3691(9) Å
3.490(49), 3.318(57), 3.275(100), 2.492(41), 2.331(45), 2.129(33), 1.993(31), 1.947(32)
Type material is deposited in the mineralogical collections of the Natural History Museum, London, catalogue number BM 2015, 33
How to cite: Förster, H.-J., Bindi, L. and Stanley, C.J. (2015) Grundmannite, IMA 2015-038. CNMNC Newsletter No. 26, August 2015, page 946; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-039**
Chongite
$Ca_3Mg_2(AsO_4)_2(AsO_3OH)_2{\cdot}4H_2O$
Torrecillas mine, Salar Grande, Iquique Province, Tarapacá Region, Chile (20º58′13″S, 70º8′17″W)

Anthony R. Kampf*, Barbara Nash, Maurizio Dini and Arturo A. Molina Donoso
*E-mail: akampf@nhm.org
The Mg analogue of sainfeldite
Monoclinic: *C*2/*c*; structure determined
a = 18.5879(6), *b* = 9.3660(3), *c* = 9.9622(7) Å, β = 96.916(7)°
8.35(29), 4.644(62), 4.396(26), 3.372(62), 3.275(100), 3.113(57), 2.384(30), 1.799(22)
Co-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 numbers 65585, 65586 and 65587
How to cite: Kampf, A.R., Nash, B., Dini, M. and Molina Donoso, A.A. (2015) Chongite, IMA 2015-039. CNMNC Newsletter No. 26, August 2015, page 946; *Mineralogical Magazine*, **79**, 941–947.

IMA No. **2015-040**
Gajardoite
$KCa_{0.5}As_4^{3+}O_6Cl_2{\cdot}5H_2O$
Torrecillas mine, Salar Grande, Iquique Province, Tarapacá Region, Chile (20°58′13″S, 70°8′17″W)
Anthony R. Kampf*, Barbara Nash, Maurizio Dini and Arturo A. Molina Donoso
*E-mail: akampf@nhm.org
New structure type
Hexagonal: *P*6/*mmm*; structure determined
a = 5.2558(8), *c* = 15.967(2) Å
16.00(100), 5.31(48), 3.466(31), 3.013(44), 2.624(51), 2.353(36), 1.845(21), 1.460(17)
Co-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 numbers 65585, 65586 and 65587
How to cite: Kampf, A.R., Nash, B., Dini, M. and Molina Donoso, A.A. (2015) Gajardoite, IMA 2015-040. CNMNC Newsletter No. 26, August 2015, page 947; *Mineralogical Magazine*, **79**, 941–947.

NOMENCLATURE PROPOSALS APPROVED IN JULY 2015

IMA 15-A: Anatacamite (discredited)
Proposal 15-A is accepted, and anatacamite is officially discredited.

IMA 15-B: Magnesioastrophyllite and astrophyllite supergroup
Proposal 15-B is accepted, and "magnesioastrophyllite" is validated under the name lobanovite, $K_2Na(Fe_4^{2+}Mg_2Na)Ti_2(Si_4O_{12})_2O_2(OH)_4$.
According to the new classification scheme, the astrophyllite supergroup is now divided in three groups: the astrophyllite group, the kupletskite group, and the devitoite group.

IMA 15-J: Hydrotalcite neotypes
Proposal 15-J is accepted, and the hydrotalcite samples MFN_MIN_1998_2751 and MFN_MIN_1998_2758, labelled by Gustav Rose and deposited at the Museum für Naturkunde Berlin, are defined as neotypes. The type locality is Snarum, Modum, Buskerud, Norway.

Nomenclature of epidotes
A proposal concerning nomeclature within the epidote supergroup is accepted, and the names hancockite, niigataite and tweddillite are reinstated instead of epidote-(Pb), clinozoisite-(Sr) and manganipiemontite-(Sr), respectively.

Garronite: change in nomenclature
After the approval of the new mineral garronite-Na (IMA 2015-015 – see above), the name "garronite" becomes a series name, and the mineral formerly referred to as garronite is renamed garronite-Ca.