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CNMNC Newsletter

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

NEWSLETTER 15

New minerals and nomenclature modifications approved in 2012 and 2013

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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.2013.077.1.01

New mineral proposals approved in September 2012

IMA No. **2012-039**
$Ca_{1-2}Fe[(Si,Al,Be)_5Be_2O_{13}(OH)_2]\cdot 2H_2O$
In a syenite pegmatite at Langangen, Blåfjell, Norway (59º5′34″N 9º41′38″E) and the A/S Granite Quarry, Tvedalen, Vestfold, Norway
J. Grice*, R. Kristiansen, H. Friis, R. Rowe, R.S. Selbekk, M. Cooper, A.O. Larsen and G. Poirier
*E-mail: jgrice@mus-nature.ca
Interrupted framework zeolite
Monoclinic: $P2_1/c$; structure determined
a = 8.759(5), b = 4.864(2), c = 31.258(7) Å, β = 90.31(3)º
15.555(100), 4.104(29), 3.938(36), 3.909(60), 3.820(30), 3.251(66), 3.186(27), 2.884(64)
Type material is deposited in the collections of the Canadian Museum of Nature, Ottawa, Canada, specimen number CNMMC 86554, and the Natural History Museum, Oslo, Norway, specimen numbers 43434 and 43435
How to cite: Grice, J., Kristiansen, R., Friis, H., Rowe, R., Selbekk, R.S., Cooper, M., Larsen, A.O. and Poirier, G. (2013) IMA 2012-039. CNMNC Newsletter No. 15, February 2013, page 2; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-040**
Markhininite
$TlBi(SO_4)_2$
Great Fissure, Tolbachik volcano, Kamchatka Peninsula, Russia
Stanislav K. Filatov, Lidiya P. Vergasova, Oleg I. Siidra*, Sergey V. Krivovichev and Yuri L. Kretser
*E-mail: siidra@mail.ru
Related to yavapaiite and eldfellite
Triclinic: $P\bar{1}$; structure determined
a = 7.375(9), b = 10.647(16), c = 10.671(12) Å, α = 61.24(9), β = 70.77(13), γ = 70.85(10)º
4.264(68), 3.442(100), 3.350(35), 3.125(24), 3.054(23), 2.717(45), 2.217(20), 2.114(34)
Type material is deposited in the collections of the Mineralogical Museum, Department of Mineralogy, St Petersburg State University, St Petersburg, Russia, specimen number 1/19526
How to cite: Filatov, S.K., Vergasova, L.P., Siidra, O.I., Krivovichev, S.V. and Kretser, Y.L. (2013) Markhininite , IMA 2012-040. CNMNC Newsletter No. 15, February 2013, page 2; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-045**
Harmunite
$CaFe_2O_4$
Jabel Harmun Mountain, Judea Desert, West Bank, Palestinian Autonomy, Israel (31º46′N 35º26′E)
Irina O. Galuskina*, Yevgeny Vapnik, Biljana Lazic, Thomas Armbruster, Mikhail Murashko and Evgeny V. Galuskin
*E-mail: irina.galuskina@us.edu.pl
Post-spinel calcium ferrite
Orthorhombic: *Pnma*; structure determined
a = 9.2183(3), b = 3.0175(1), c = 10.6934(4) Å
2.670(52), 2.663(100), 2.524(60), 2.523(35), 2.232(34), 1.834(40), 1.831(27), 1.510(19)
Type material is deposited in the collections of St Petersburg University, Universytetskaya Naberezhnaya 7/9, 199034 St Petersburg, Russia, catalogue number 1/19518
How to cite: Galuskina, I.O., Vapnik, Y., Lazic, B., Armbruster, T., Murashko, M. and Galuskin, E.V. (2013) Harmunite, IMA 2012-045. CNMNC Newsletter No. 15, February 2013, page 2; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-046**
Kyuygenite
$Ca_{12}Al_{14}O_{32}[(H_2O)_4Cl_2]$
Xenolith no.1, Upper Chegem volcanic caldera, Kabardino-Balkaria, North Caucasus, Russia (43º17′N 43º6′E)
E.V. Galuskin*, I.O. Galuskina, J. Kusz, T. Armbruster, R. Bailau, M. Dulski, V.M. Gazeev, N.N. Pertsev, A.E. Zadov and P. Dzierżanowski
*E-mail: evgeny.galuskin@us.edu.pl
H_2O analogue of brearleyite
Cubic: $I\bar{4}3d$; structure determined
a = 12.0285(1) Å
4.911(31), 3.215(15), 3.007(38), 2.690(100), 2.455(46), 2.196(21), 1.668(26), 1.607(30)
Type material is deposited in the collections of the Naturhistorisches Museum, Bern, Switzerland, registration number NMBE 41538
How to cite: Galuskin, E.V., Galuskina, I.O., Kusz, J., Armbruster, T., Bailau, R., Dulski, M., Gazeev, V.M., Pertsev, N.N., Zadov, A.E. and Dzierżanowski, P. (2013) Kyuygenite, IMA 2012-046. CNMNC Newsletter No. 15, February 2013, page 2; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-047**

Grigorievite

$Cu_3Fe_2^{3+}Al_2(VO_4)_6$

Second scoria cone, Tolbachik volcano, Kamchatka Peninsula, Kamchatka Oblast', Far-Eastern Region, Russia (55º41′N 160º14′E)

Igor V. Pekov*, Natalia V. Zubkova, Mikhail N. Murashko, Vasiliy O. Yapaskurt, Yury S. Polekhovsky, Pavel M. Kartashov and Dmitry Y. Pushcharovsky

*E-mail: igorpekov@mail.ru

Related to howardevansite

Triclinic: $P\bar{1}$; structure determined

a = 8.0217(5), b = 9.6858(10), c = 6.5475(9) Å, α = 103.645(10), β = 102.369(8), γ = 106.281(8)º

7.36(27), 4.718(29), 4.417(24), 3.671(26), 3.426(23), 3.141(100), 3.044(92), 2.811(26)

Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4278/1

How to cite: Pekov, I.V., Zubkova, N.V., Murashko, M.N., Yapaskurt, V.O., Polekhovsky, Y.S., Kartashov, P.M. and Pushcharovsky, D.Y. (2013) Grigorievite, IMA 2012-047. CNMNC Newsletter No. 15, February 2013, page 15; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-048**

Hatertite

$Na_2(Ca,Na)(Fe^{3+},Cu)_2(AsO_4)_3$

North Breach of the Great fissure Tolbachik volcano eruption (1975–1976), Kamchatka Peninsula, Russia (55º41′N 160º14′E)

L.P. Vergasova, S.K. Filatov, D.S. Rybin, S.V. Krivovichev*, S.N. Britvin and V.V. Ananiev

*E-mail: skrivovi@mail.ru

Alluaudite group

Monoclinic: $C2/c$; structure determined

a = 12.640(2), b = 13.007(2), c = 6.700(1) Å, β = 113.828(3)º

6.493(25), 3.628(25), 3.204(39), 3.065(18), 2.976(28), 2.830(100), 2.632(36), 1.647(19)

Type material is deposited in the collections of the Mineralogical Museum, Department of Mineralogy, St Petersburg University, St Petersburg, Russia, catalogue number 1/19536

How to cite: Vergasova, L.P., Filatov, S.K., Rybin, D.S., Krivovichev, S.V., Britvin, S.N. and Ananiev, V.V. (2013) Hatertite, IMA 2012-048. CNMNC Newsletter No. 15, February 2013, page 3; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-049**

Mössbauerite

$Fe_3^{3+}O_2(OH)_4(CO_3)_{0.5}\cdot 1.5H_2O$

Mont Saint-Michel Bay, Brittany and Normandy, France

Jean-Marie R. Génin, Stuart J. Mills*, Andrew G. Christy, Odile Guérin, Adrien J. Herbillon, Ernő Kuzmann, Guillaume Morin, Georges Ona-Nguema, Christian Ruby and Chandan Upadhyay

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

Hydrotalcite supergroup

Trigonal: $R\bar{3}$

a = 3.079(6), c = 22.253(2) Å

7.372(60), 3.691(20), 2.646(100), 2.588(70), 2.406(40), 1.928(30), 1.855(50)

The holotype is preserved in the collections of Museum Victoria, Melbourne, Australia, registration number M52078

How to cite: Génin, J.-M.R., Mills, S.J., Christy, A.G., Guérin, O., Herbillon, A.J., Kuzmann, E., Morin, G., Ona-Nguema, G., Ruby, C. and Upadhyay, C. (2013) Mössbauerite, IMA 2012-049. CNMNC Newsletter No. 15, February 2013, page 3; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-051**

Beshtauite

$(NH_4)_2(UO_2)(SO_4)_2\cdot 2H_2O$

Gremuchka ore zone, Beshtau uranium deposit, Mount Beshtau, Stavropol Krai, Northern Caucasus, Russia (44º05′53″N 43º01′20″E)

Igor V. Pekov*, Sergey V. Krivovichev, Vasiliy O. Yapaskurt, Nikita V. Chukanov and Dmitriy I. Belakovskiy

*E-mail: igorpekov@mail.ru

New structure type

Monoclinic: $P2_1/c$; structure determined

a = 7.7360(8), b = 7.3712(5), c = 20.856(2) Å, β = 102.123(8)º

6.86(100), 5.997(19), 5.558(15), 5.307(36), 5.005(35), 3.410(38), 3.081(24), 2.881(20)

Type material is preserved in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4280/1

How to cite: Pekov, I.V., Krivovichev, S.V., Yapaskurt, V.O., Chukanov, N.V. and Belakovskiy, D.I. (2013) Beshtauite, IMA

2012-051. CNMNC Newsletter No. 15, February 2013, page 3; *Mineralogical Magazine*, **77**, 1–12.

New mineral proposals approved in October 2012

IMA No. **2012-052**
Yangite
$PbMnSi_3O_8 \cdot H_2O$
Kombat mine, Otavi Valley , Namibia
William W. Pinch*, Robert T. Downs, Stanley H. Evans, Lauren Megaw and Elias M. Bloch
*E-mail: wwpinch@gmail.com
New chain silicate with the two-connected double chains
Triclinic: $P\bar{1}$; structure determined
a = 7.9833(8), b = 7.2712(7), c = 9.6015(9) Å, α = 109.938(5), β = 118.229(4), γ = 105.910(4)º
7.379(100), 6.648(48), 3.717(44), 3.517(38), 2.992(38), 2.949(40), 2.917(65), 2.907(55)
Type material is preserved in the collections of the Mineral Museum of the University of Arizona, Tucson, Arizona, USA, catalogue number 19341, and the Smithsonian Institution, Washington DC, USA, catalogue number 175983
How to cite: Pinch, W.W., Downs, R.T., Evans, S.H., Megaw, L. and Bloch, E.M. (2013) Yangite, IMA 2012-052. CNMNC Newsletter No. 15, February 2013, page 4; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-053**
Nickelpicromerite
$K_2Ni(SO_4)_2 \cdot 6H_2O$
Slyudorudnik, Kyshtym District, Chelyabinsk Oblast, South Urals, Russia (55º40′12″N 60º21′17″E)
Elena V. Belogub, Sergey V. Krivovichev, Igor V. Pekov*, Aleksey M. Kuznetsov, Vasiliy A. Kotlyarov, Nikita V. Chukanov and Dmitriy I. Belakovskiy
*E-mail: igorpekov@mail.ru
Picromerite group
Monoclinic: $P2_1/c$; structure determined
a = 6.1310(7), b = 12.1863(14), c = 9.0076(10) Å, β = 105.045(2)º
5.386(34), 4.312(46), 4.240(33), 4.085(100), 3.685(85), 3.041(45), 2.808(31), 2.368(34)
Type material is preserved in the collections of the Natural Scientific Museum of the Ilmen State Reserve, Miass, Russia, specimen number 17301, and the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4281/1
How to cite: Belogub, E.V., Krivovichev, S.V., Pekov, I.V., Kuznetsov, A.M., Kotlyarov, V.A., Chukanov, N.V. and Belakovskiy, D.I. (2013) Nickelpicromerite, IMA 2012-053. CNMNC Newsletter No. 15, February 2013, page 4; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-054**
$(CaCe_{2.5}Na_{0.5})(Al_4)(Si_2O_7)(SiO_4)_3O(OH)_2$
Stetind pegmatite, Tysfjord granite, Norway (68º10′15.20″N 16º33′10.65″E)
Paola Bonazzi*, Luca Bindi, Christian Chopin, Tomas A. Husdal and Giovanni O. Lepore
*E-mail: paola.bonazzi@unifi.it
Member of a polysomatic series having epidote and törnebohmite as endmembers
Monoclinic: $P2_1/m$; structure determined
a = 8.9277(6), b = 5.6548(3), c = 17.587(1) Å, β = 116.475(8)º
15.743(92), 4.616(30), 3.499(42), 2.983(100), 2.827(47), 2.751(32), 2.659(23), 2.619(57)
Type material is preserved in the collections of the Museo di Storia Naturale, Università degli Studi di Firenze, Firenze, Italy, catalogue number 3114/I
How to cite: Bonazzi, P., Bindi, L., Chopin, C., Husdal, T.A. and Lepore, G.O. (2013) IMA 2012-054. CNMNC Newsletter No. 15, February 2013, page 4; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-055**
Barikaite
$Ag_3Pb_{10}(Sb_8As_{11})_{\Sigma 19}S_{40}$
Barika ore deposit, 17 km east of Sardasht, West Azerbaijan Province, Iran (the goldfield is situated between 36º10′N and 36º13′N and 45º37′E and 45º41′E)
Dan Topa*, Emil Makovicky, Hubert Putz, Georg Zagler and Husein Tajjedin
*E-mail: dan.topa@sbg.ac.at
Arsenian N = 4 member of the sartorite homologous series
Monoclinic: $P2_1/n$; structure determined
a = 8.519(3), b = 8.057(3), c = 24.905(8) Å, β = 98.926(6)º
3.835(62), 3.646(100), 3.441(60), 3.408(62), 3.117(52), 3.008(43), 2.972(66), 2.769(90)

Type material is preserved in the collections of the Department of Materials Engineering and Physics, University of Salzburg, Salzburg, Austria, specimen number 15005
How to cite: Topa, D., Makovicky, E., Putz, H., Zagler, G. and Tajjedin, H. (2013) Barikaite, IMA 2012-055. CNMNC Newsletter No. 15, February 2013, page 4; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-056**
Rossiantonite
$Al_3(PO_4)(SO_4)_2(OH)_2(H_2O)_{14}$
Akopan-Dal Cin cave system, Chimantha massif, Venezuela (5º10′52″N 61º57′50″W)
Ermanno Galli, Maria Franca Brigatti*, Daniele Malferrari, Francesco Sauro and Jo De Waele
*E-mail: gallier@unimore.it
New structure type
Triclinic: $P\bar{1}$; structure determined
a = 10.3415(3), b = 10.9580(3), c = 11.1445(3) Å, α = 86.968(4), β = 65.757(3), γ = 75.055(3)º
10.16(32), 9.12(56), 8.02(40), 7.12(33), 5.00(29), 4.647(100), 4.006(53), 3.781(28)
Type material is preserved in the collections of the "Gemma" University Museum of Modena and Reggio E. University, Modena, Italy, catalogue number 2/2012
How to cite: Galli, E., Brigatti, M.F., Malferrari, D., Sauro, F. and De Waele, J. (2013) Rossiantonite, IMA 2012-056. CNMNC Newsletter No. 15, February 2013, page 5; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-057**
Nabimusaite
$KCa_{12}(SiO_4)_4(SO_4)_2O_2F$
Jabel Harmun, Nabi Musa, Judea Desert, West Bank, Palestinian Autonomy, Israel (31º46′N 35º26′E)
Evgeny V. Galuskin*, Frank Gfeller, Thomas Armbruster, Irina O. Galuskina, Yevgeny Vapnik, Mikhail Murashko, Roman Włodyka and Piotr Dzierżanowski
*E-mail: evgeny.galuskin@us.edu.pl
Known synthetic nesosilicate
Trigonal: $R\bar{3}m$; structure determined
a = 7.1905(4), c = 41.251(3) Å
3.595(52), 3.105(97), 2.829(71), 2.753(97), 2.750(89), 2.140(50), 1.986(46), 1.798(100)
Type material is preserved in the collections of the Museum of Natural History in Bern, Bern, Switzerland, catalogue number NMBE 41598
How to cite: Galuskin, E.V., Gfeller, F., Armbruster, T., Galuskina, I.O., Vapnik, Y., Murashko, M., Włodyka, R. and Dzierżanowski, P. (2013) Nabimusaite, IMA 2012-057. CNMNC Newsletter No. 15, February 2013, page 5; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-058**
Jasrouxite
$Ag_{16}Pb_4(Sb_{24}As_{16})_{\Sigma 40}S_{72}$
Jas Roux mine, La Chapelle en Valgaudemard, Parc National des Ecrins, Hautes-Alpes, France (44º48′45″N 6º19′18″E)
Dan Topa*, Emil Makovicky, Georges Favreau, Vincent Bourgoin, Jean-Claude Boulliard, Georg Zagler and Hubert Putz
*E-mail: dan.topa@sbg.ac.at
Lillianite homologous series
Triclinic: $P\bar{1}$; structure determined
a = 8.2917(5), b = 19.101(1), c = 19.487(1) Å, α = 89.731(1), β = 83.446(1), γ = 89.944(1)º
3.847(33), 3.294(80), 3.281(100), 3.227(25), 3.184(21), 3.179(25), 2.860(33), 2.850(26)
Type material is preserved in the collections of the Department of Materials Engineering and Physics, University of Salzburg, Salzburg, Austria, specimen number 15006
How to cite: Topa, D., Makovicky, E., Favreau, G., Bourgoin, V., Boulliard, J.-C., Zagler, G. and Putz, H. (2013) Jasrouxite, IMA 2012-058. CNMNC Newsletter No. 15, February 2013, page 5; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-059**
Cobaltoblödite
$Na_2Co(SO_4)_2{\cdot}4H_2O$
Blue Lizard mine, Red Canyon, White Canyon District, San Juan County, Utah
Anatoly V. Kasatkin*, Fabrizio Nestola, Jakub Plášil, Joe Marty, Dmitriy I. Belakovskiy, Atali A. Agakhanov, Stuart J. Mills, Arianna Lanza, Monica Favaro and Sara Bianchin
*E-mail: anatoly.kasatkin@gmail.com
Blödite group
Monoclinic: $P2_1/a$; structure determined
a = 11.147(1), b = 8.268(1), c = 5.5396(7) Å, β = 100.517(11)º
4.551(80), 4.269(50), 3.795(18), 3.339(43), 3.290(100), 3.258(58), 2.644(21), 2.296(22)
Type material is preserved in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4271/1, and

Museum Victoria, Melbourne, Australia, catalogue number M52196
How to cite: Kasatkin, A.V., Nestola, F., Plášil, J., Marty, J., Belakovskiy, D.I., Agakhanov, A.A., Mills, S.J., Lanza, A., Favaro, M. and Bianchin, S. (2013) Cobaltoblödite, IMA 2012-059. CNMNC Newsletter No. 15, February 2013, page 5; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-060**
Colinowensite
$BaCuSi_2O_6$
Central-Eastern orebody, Wessels Mine, Hotazel, Northern Cape Province, South Africa
Branko Rieck*
*E-mail: branko@mineralogie.at
New structure type
Tetragonal: $I4_1/acd$; structure determined
a = 9.966(1), c = 22.293(2) Å
5.577(31), 4.997(30), 4.560(31), 3.533(70), 2.985(100), 2.499(57), 2.280(23), 1.767(19)
Type material is preserved in the collections of the Institut für Mineralogie und Kristallographie, University of Vienna, Vienna, Austria, catalogue number HS13.097
How to cite: Rieck, B. (2013) Colinowensite, IMA 2012-060. CNMNC Newsletter No. 15, February 2013, page 6; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-061**
Bairdite
$Pb_2Cu_4^{2+}Te_2^{6+}O_{10}(OH)_2(SO_4)\cdot H_2O$
Bird Nest drift, Otto Mountain, San Bernadino County, California, USA (35.27677°N 116.09927°W)
Anthony R. Kampf*, Stuart J. Mills, Robert M. Housley, George R. Rossman, Joseph Marty and Brent Thorne
*E-mail: akampf@nhm.org
New structure type
Monoclinic: $P2_1/c$; structure determined
a = 14.3126(10), b = 5.2267(3), c = 9.4878(5) Å, β = 106.815(7)°
4.77(50), 4.522(66), 3.480(62), 2.999(97), 2.701(79), 2.614(100), 1.727(65), 1.509(83)
Type material is preserved in the collections of the Mineral Sciences Department, Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue numbers 64000 and 64001
How to cite: Kampf, A.R., Mills, S.J., Housley, R.M., Rossman, G.R., Marty, J. and Thorne, B. (2013) Bairdite, IMA 2012-061. CNMNC Newsletter No. 15, February 2013, page 6; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-063**
Schindlerite
$\{[Na_2(H_2O)_{10}](H_3O)_4\}\{V_{10}O_{28}\}$
St Jude mine, Gypsum Valley, Slick Rock, San Miguel County, Colorado, USA
Anthony R. Kampf, John M. Hughes*, Joe Marty and Barbara Nash
*E-mail: jmhughes@uvm.edu
New structure type
Triclinic: $P\bar{1}$; structure determined
a = 8.5143(3), b = 10.4283(5), c = 11.2827(8) Å, α = 68.595(5), β = 87.253(6), γ = 67.112(5)°
10.51(94), 8.68(100), 7.70(86), 6.73(61), 3.815(24), 2.993(50), 2.787(24), 2.131(29)
Type material is preserved in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue numbers 64005, 64006 and 64007
How to cite: Kampf, A.R., Hughes, J.M., Marty, J. and Nash, B. (2013) Schindlerite, IMA 2012-063. CNMNC Newsletter No. 15, February 2013, page 6; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-064**
Wernerbaurite
$\{[Ca(H_2O)_7]_2(H_2O)_2(H_3O)_2\}\{V_{10}O_{28}\}$
St Jude mine, Gypsum Valley, Slick Rock, San Miguel County, Colorado, USA
Anthony R. Kampf, John M. Hughes*, Joe Marty and Barbara Nash
*E-mail: jmhughes@uvm.edu
New structure type
Triclinic: $P\bar{1}$; structure determined
a = 9.7212(6), b = 10.2598(8), c = 10.5928(8) Å, α = 89.999(6), β = 77.083(7), γ = 69.887(8)°
10.32(100), 9.64(92), 8.88(95), 8.10(58), 6.881(70), 6.031(39), 3.028(29), 2.842(29)
Type material is preserved in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue numbers 64002, 64003 and 64004
How to cite: Kampf, A.R., Hughes, J.M., Marty, J. and Nash, B. (2013) Wernerbaurite, IMA 2012-064. CNMNC Newsletter No. 15, February 2013, page 6; *Mineralogical Magazine*, **77**, 1–12.

New mineral proposals approved in November 2012

IMA No. **2012-065**
Leydetite
$Fe(UO_2)(SO_4)_2 \cdot 11H_2O$
Mas d'Alary uranium deposit, Lodève, Hérault, France (43º42′33″N 03º20′12″E)
Jakub Plášil*, Anatoly V. Kasatkin, Radek Škoda, Milan Novák, Anna Kallistová, Karla Fejfarová and Nicolas Meisser
*E-mail: plasil@fzu.cz
New structure type
Monoclinic: *C*2/*c*; structure determined
a = 11.3173(3), *b* = 7.7258(2), *c* = 21.8121(7) Å, β = 102.383(3)º
10.625(100), 6.277(1), 5.321(66), 3.549(5), 2.663(4), 2.131(2)
Type material is preserved in the collections of the Musée Cantonal de Géologie, Lausanne, Switzerland, registration number MGL 92661
How to cite: Plášil, J., Kasatkin, A.V., Škoda, R., Novák, M., Kallistová, A., Fejfarová, K. and Meisser, N. (2013) Leydetite, IMA 2012-065. CNMNC Newsletter No. 15, February 2013, page 7; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-066**
Línekite
$K_2Ca_3[(UO_2)(CO_3)_3]_2 \cdot 7H_2O$
Geschieber vein, Svornost mine, Jáchymov ore district, Western Bohemia, Czech Republic (50º22′21.5″N 12º54′42.0″E)
Jakub Plášil*, Karla Fejfarová, Jiří Sejkora, Jiří Čejka, Milan Novák, Radek Škoda, Jan Hloušek, Michal Dušek and Ivana Císařová
*E-mail: plasil@fzu.cz
Known synthetically
Orthorhombic: *Pnnm*; structure determined
a = 17.0069(5), *b* = 18.0273(5), *c* = 18.3374(5) Å
8.506(100), 6.428(3), 5.126(5), 4.586(2), 4.249(7), 4.137(2), 3.543(2)
Type material is preserved in the collections of the Department of Mineralogy and Petrology of the National Museum in Prague, Prague, Czech Republic, catalogue number P1P 2/2012
How to cite: Plášil, J., Fejfarová, K., Sejkora, J., Čejka, J., Novák, M., Škoda, R., Hloušek, J., Dušek, M. and Císařová, I. (2013) Línekite, IMA 2012-066. CNMNC Newsletter No. 15, February 2013, page 7; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-068**
Nioboholtite
$(Nb_{0.6}\square_{0.4})Al_6BSi_3O_{18}$
Szklary serpentinite massif, *c.* 60 km south of Wrocław, Lower Silesia, Poland (50º39.068′N 16º49.932′E)
Adam Pieczka*, R. James Evans, Edward S. Grew, Lee A. Groat, Chi Ma and George R. Rossman
*E-mail: pieczka@agh.edu.pl
Dumortierite supergroup
Orthorhombic: *Pnma*
a = 4.7001, *b* = 11.828, *c* = 20.243 Å
10.213(67), 5.914(40), 5.861(66), 3.458(63), 3.231(100), 3.068(53), 2.931(65), 2.895(64)
Type material is preserved in the collections of the Mineralogical Museum of the University of Wrocław, Wrocław, Poland, catalogue number MMWr IV7615; cotype specimens are deposited in the same Museum, catalogue numbers MMWr IV7616, MMWr IV7617, MMWr IV7618 and MMWr IV7619, and in the collections of the Smithsonian Institution, Washington DC, USA, specimen numbers NMNH 175986, NMNH 175987 and NMNH 175988
How to cite: Pieczka, A., Evans, R.J., Grew, E.S., Groat, L.A., Ma, C. and Rossman, G.R. (2013) Nioboholtite, IMA 2012-068. CNMNC Newsletter No. 15, February 2013, page 7; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-069**
Titanoholtite
$(Ti_{0.75}\square_{0.25})Al_6BSi_3O_{18}$
Szklary serpentinite massif, *c.* 60 km south of Wrocław, Lower Silesia, Poland (50º39.068′N 16º49.932′E)
Adam Pieczka*, R. James Evans, Edward S. Grew, Lee A. Groat, Chi Ma and George R. Rossman
*E-mail: pieczka@agh.edu.pl
Dumortierite supergroup
Orthorhombic: *Pnma*
a = 4.7001, *b* = 11.828, *c* = 20.243 Å
10.213(46), 5.914(47), 5.861(78), 3.458(63), 3.231(100), 3.068(53), 2.931(59), 2.895(65)
Type material is preserved in the collections of the Mineralogical Museum of the University of Wrocław, Wrocław, Poland, catalogue number MMWr IV7617; cotype specimens are also deposited in the same Museum, catalogue numbers MMWr IV7620 and MMWr IV7621,

and in the collections of the Smithsonian Institution, Washington DC, USA, catalogue numbers NMNH 175986, NMNH 175987 and NMNH 175988

How to cite: Pieczka, A., Evans, R.J., Grew, E.S., Groat, L.A., Ma, C. and Rossman, G.R. (2013) Titanoholtite, IMA 2012-069. CNMNC Newsletter No. 15, February 2013, page 7; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-070**

Szklaryite

$\square Al_6BAs_3^{3+}O_{15}$

Szklary serpentinite massif, *c.* 60 km south of Wrocław, Lower Silesia, Poland (50º39.068′N 16º49.932′E)

Adam Pieczka*, R. James Evans, Edward S. Grew, Lee A. Groat, Chi Ma and George R. Rossman

*E-mail: pieczka@agh.edu.pl

Dumortierite supergroup

Orthorhombic: *Pnma*

a = 4.7001, b = 11.828, c = 20.243 Å

5.914(57), 5.861(100), 3.458(60), 3.444(34), 3.231(95), 3.068(50), 2.931(51), 2.895(59)

The holotype is deposited in the collections of the Mineralogical Museum of University of Wrocław, Wrocław, Poland, catalogue number MMWr IV7615

How to cite: Pieczka, A., Evans, R.J., Grew, E.S., Groat, L.A., Ma, C. and Rossman, G.R. (2013) Szklaryite, IMA 2012-070. CNMNC Newsletter No. 15, February 2013, page 8; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-071**

Murashkoite

FeP

Halamish wadi, Hatrurim formation, Negev Desert, Israel (31º09′47″N 35º17′57″E)

Sergey N. Britvin*, Yevgeny Vapnik, Yury S. Polekhovsky and Sergey V. Krivovichev

*E-mail: sbritvin@gmail.com

MnP structure type

Orthorhombic: *Pnma*; structure determined

a = 5.098(5), b = 3.251(1), c = 5.699(3) Å

2.831(75), 2.548(22), 2.477(46), 1.975(47), 1.895(100), 1.779(19), 1.632(45), 1.264(12)

The holotype is deposited in the collections of the Mineralogical Museum of the Mining Institute (Technical University), St Petersburg, Russia, catalogue number MGS 2211/1

How to cite: Britvin, S.N., Vapnik, Y., Polekhovsky, Y.S. and Krivovichev, S.V. (2013) Murashkoite, IMA 2012-071. CNMNC Newsletter No. 15, February 2013, page 8; *Mineralogical Magazine*, **77**, 1–12.

New mineral proposals approved in December 2012

IMA No. **2012-072**

Ghiaraite

$CaCl_2{\cdot}4H_2O$

Mount Vesuvius, Italy

Fabrizio Nestola*, Manuela Rossi, Federico Zorzi, Arianna Lanza, Luca Peruzzo, Alessandro Guastoni and Anatoly Kasatkin

*E-mail: fabrizio.nestola@unipd.it

Known synthetic compound

Triclinic: $P\bar{1}$; structure determined

a = 6.3660(5), b = 6.5914(5), c = 8.5568(6) Å, α = 93.504(6), β = 97.778(7), γ = 110.557(6)º

6.124(47), 5.874(73), 4.600(88), 3.569(46), 2.939(77), 2.717(88), 2.628(100), 2.204(75)

The holotype is deposited in the collections of the Reale Museo of Napoli, Napoli, Italy, registration number 16986E5525

How to cite: Nestola, F., Rossi, M., Zorzi, F., Lanza, A., Peruzzo, L., Guastoni, A. and Kasatkin, A. (2013) Ghiaraite, IMA 2012-072. CNMNC Newsletter No. 15, February 2013, page 8; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-074**

Vanadio-oxy-dravite

$NaV_3(Al_4Mg_2)(Si_6O_{18})(BO_3)_3(OH)_3O$

Pereval quarry, Sludyanka, Irkutsk region, Southern Lake Baikal, Siberia, Russia (51º37′N 103º38′E)

Ferdinando Bosi*, Henrik Skogby, Leonid Reznitskii and Ulf Hålenius

*E-mail: ferdinando.bosi@uniroma1.it

Tourmaline supergroup

Trigonal: *R*3*m*; structure determined

a = 16.0273(3), c = 7.2833(1) Å

6.447(37), 4.261(52), 4.004(66), 3.522(47), 2.993(67), 2.596(100), 2.057(43), 1.934(28)

Type material is deposited in the collections of the Museum of Mineralogy, Earth Sciences Department, Sapienza University of Rome, Rome, Italy, catalogue number 33068

How to cite: Bosi, F., Skogby, H., Reznitskii, L. and Hålenius, U. (2013) Vanadio-oxy-dravite,

IMA 2012-074. CNMNC Newsletter No. 15, February 2013, page 8; *Mineralogical Magazine*, **77**, 1–12.

New mineral proposals approved in January 2013

IMA No. **2012-062**
Ferdowsiite
$Ag_8(Sb_5As_3)S_{16}$
Barika gold deposit, Sardasht, West Azerbaijan Province, Iran
Dan Topa*, Emil Makovicky, Hubert Putz, Georg Zagler and Husein Tajjedin
*E-mail: dan.topa@sbg.ac.at
Superstructure of PbS
Monoclinic: $P2_1/n$; structure determined
a = 8.677(2), b = 5.799(1), c = 13.839(3) Å, β = 96.175(4)º
3.225(96), 3.205(100), 2.900(78), 2.750(90), 2.707(73), 1.998(41), 1.979(39), 1.940(22)
Type material is preserved in the collections of the Department of Materials Engineering and Physics, University of Salzburg, Salzburg, Austria, specimen number 15006
How to cite: Topa, D., Makovicky, E., Putz, H., Zagler, G. and Tajjedin, H. (2013) Ferdowsiite, IMA 2012-062. CNMNC Newsletter No. 15, February 2013, page 9; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-067**
Vysokýite
$U^{4+}[AsO_2(OH)_2]_4 \cdot 4H_2O$
Svornost mine, Jáchymov ore district, Czech Republic (50º22′21.47″N 12º54′42.0″E)
Jakub Plášil*, Karla Fejfarová, Jan Hloušek, Radek Škoda, Milan Novák, Jiří Sejkora, Jiří Čejka, František Veselovský and Juraj Majzlan
*E-mail: plasil@fzu.cz
New structure type
Triclinic: $P\bar{1}$; structure determined
a = 10.749(2), b = 5.044(3), c = 19.1778(7) Å, α = 89.872(15), β = 121.534(15), γ = 76.508(15)º
8.782(100), 8.067(50), 6.399(7), 4.773(6), 3.411(10), 3.197(18), 3.189(11), 3.076(11)
Type material is preserved in the collections of the Department of Mineralogy and Petrology of the National Museum in Prague, Prague, Czech Republic, catalogue number P1P 1/2012
How to cite: Plášil, J., Fejfarová, K., Hloušek, J., Škoda, R., Novák, M., Sejkora, J., Čejka, J., Veselovský, F. and Majzlan, J. (2013) Vysokýite, IMA 2012-067. CNMNC Newsletter No. 15, February 2013, page 9; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-075**
Aluminopyracmonite
$(NH_4)_3Al(SO_4)_3$
La Fossa crater, Vulcano, Aeolian Islands, Italy
Francesco Demartin*, Italo Campostrini and Carlo Castellano
*E-mail: francesco.demartin@unimi.it
Related to pyracmonite
Trigonal: $R\bar{3}$; structure determined
a = 15.0324(8), c = 8.8776(5) Å
7.469(67), 4.289(45), 4.187(27), 3.336(100), 3.288(60), 2.824(29), 2.796(26), 2.748(21)
Type material is deposited in the Reference Collection of the Dipartimento di Chimica, University of Milan, Milan, Italy, sample number 2012-01
How to cite: Demartin, F., Campostrini, I. and Castellano, C. (2013) Aluminopyracmonite, IMA 2012-075. CNMNC Newsletter No. 15, February 2013, page 9; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-076**
Nizamoffite
$Mn^{2+}Zn_2(PO_4)_2(H_2O)_4$
Palermo No.1 pegmatite, North Groton, Grafton County, New Hampshire, USA
Anthony R. Kampf*, Alexander U. Falster, William B. Simmons and Robert W. Whitmore
*E-mail: akampf@nhm.org
Mn analogue of hopeite
Orthorhombic: *Pnma*; structure determined
a = 10.6530(4), b = 18.4778(13), c = 5.0583(2) Å
9.27(71), 4.62(37), 4.43(24), 3.424(52), 2.873(100), 2.644(36), 2.540(33), 1.953(36)
Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue numbers 64009 and 64010
How to cite: Kampf, A.R., Falster, A.U., Simmons, W.B. and Whitmore, R.W. (2013) Nizamoffite, IMA 2012-076. CNMNC Newsletter No. 15, February 2013, page 9; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-073**
Alburnite
$Ag_8GeTe_2S_4$
Cârnicel vein, Roşia Montana deposit, Apuseni Mountains, Romania
Călin G. Tămaş*, Bernard Grobety, Laurent Bailly, Heinz-Juergen Bernhardt and Adrian Minuţ
*E-mail: calingtamas@yahoo.fr
Argyrodite–canfieldite series
Cubic: $F\bar{4}3m$
a = 10.4±0.1 Å
6.004(67), 3.136(48), 3.002(100), 2.600(26), 2.123(33), 2.002(61), 1.838(76), 1.644(12)
Type material is deposited in the collections of the Mineralogical Museum, Department of Geology, Faculty of Biology and Geology, Babeş-Bolyai University, Cluj-Napoca, Romania, registration numbers 71a/1 and 71a/2, and at Zentrale Elektronen-Mikrosonde, Institute of Geology, Mineralogy and Geophysics, Ruhr University, Bochum, Germany, section 1064b
How to cite: Tămaş, C.G., Grobety, B., Bailly, L., Bernhardt, H.-J. and Minuţ. A. (2013) Alburnite, IMA 2012-073. CNMNC Newsletter No. 15, February 2013, page 10; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-077**
Parádsasvárite
$Zn_2(CO_3)(OH)_2$
Nagy-Lápafő, Parádsasvár, Mátra Mountains, Hungary (47º54′26.50″N 19º57′9.68″E)
Béla Fehér*, Sándor Szakáll, Norbert Zajzon and Judith Mihály
*E-mail: feherbela@upcmail.hu
Malachite–rosasite group
Monoclinic: $P2_1/a$
a = 12.92(1), b = 9.372(7), c = 3.159(4) Å, β = 110.4(1)º
6.054(67), 5.085(100), 3.703(87), 3.021(25), 2.971(25), 2.603(62), 2.539(36), 2.498(23)
Type material is deposited in the collections of the Herman Ottó Museum, Miskolc, Hungary, catalogue number 2012.23
How to cite: Fehér, B., Szakáll, S., Zajzon, N. and Mihály, J. (2013) Parádsasvárite, IMA 2012-077. CNMNC Newsletter No. 15, February 2013, page 10; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-078**
Kudryavtsevaite
$Na_3(Mg,Fe)(Fe,Ti)_2Ti_3O_{12}$
AK-8 pipe, Orapa kimberlite complex, Botswana (21º18′S 25º24′E)
Sergey Anashkin, Anjelica Bovkun, Luca Bindi*, Viktor Garanin and Yuriy Litvin
*E-mail: luca.bindi@unifi.it
New structure type
Orthorhombic: *Pnma*; structure determined
a = 27.714(1), b = 2.9881(3), c = 11.3564(6) Å
7.17(100), 4.84(70), 2.973(35), 2.841(50), 2.706(50), 2.541(50), 2.450(70), 2.296(45)
Type material is deposited in the collections of the Museo di Storia Naturale, Università degli Studi di Firenze, Firenze, Italy, catalogue number 3115/I
How to cite: Anashkin, S., Bovkun, A., Bindi, L., Garanin, V. and Litvin, Y. (2013) Kudryavtsevaite, IMA 2012-078. CNMNC Newsletter No. 15, February 2013, page 10; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-079**
Majindeite
$Mg_2Mo_3O_8$
Allende meteorite
Chi Ma
*E-mail: chi@gps.caltech.edu
Mg analogue of kamiokite
Hexagonal: $P6_3mc$
a = 5.778, c = 9.904 Å
4.952(100), 3.520(57), 2.495(35), 2.426(67), 2.233(23), 1.994(50), 1.641(24), 1.553(38)
Type material is deposited in the collections of the Smithsonian Institution's National Museum of Natural History, Washington DC, USA, registration number USNM 7615
How to cite: Ma, C. (2013) Majindeite, IMA 2012-079. CNMNC Newsletter No. 15, February 2013, page 10; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-080**
Fabriesite
$Na_3Al_3Si_3O_{12}{\cdot}2H_2O$
Tawmaw, Hpakant-Tawmaw Jade Tract, Hpakant Township, Mohnyin District, Kachin State, Myanmar
C. Ferraris*, S. Pont, G.C. Parodi, B. Rondeau and J.P. Lorand
*E-mail: ferraris@mnhn.fr
Known synthetic compound

Orthorhombic: $Pna2_1$
a = 16.4260(1), b = 15.0140(1), c = 5.2235(5) Å
8.21(36), 7.51(32), 4.41(77), 3.41(100), 2.97(70), 2.86(25), 2.61(40), 2.45(29)
Type material is deposited in the collections of the Muséum National d'Histoire Naturelle (MNHN) of Paris, France, registration number MNHN 212-001
How to cite: Ferraris, C., Pont, S., Parodi, G.C., Rondeau, B. and Lorand, J.P. (2013) Fabriesite, IMA 2012-080. CNMNC Newsletter No. 15, February 2013, page 10; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-081**
Kihlmanite-(Ce)
$Ce_2TiO_2(SiO_4)(HCO_3)_2(H_2O)$
Mount Kihlman, Khibiny Mountains, Kola Peninsula, Russia
Victor N. Yakovenchuk*, Gregory Y. Ivanyuk, Sergey V. Krivovichev, Elena A. Zhitova, Yakov A. Pakhomovsky, Ekaterina A. Selivanova, Julia A. Korchak and Galijabanu I. Kadyrova
*E-mail: yakovenchuk@ksc.ru
Closely related to tundrite-(Ce)
Triclinic: $P\bar{1}$; structure determined
a = 5.009(5), b = 7.533(5), c = 15.407(5) Å, α = 103.061(5), β = 91.006(5), γ = 109.285(5)º
15.11(100), 7.508(20), 6.912(12), 4.993(14), 3.563(15), 3.198(11), 3.065(12), 2.896(15)
Type material is deposited in the collections of the Mineralogical Museum of St Petersburg State University, St Petersburg, Russia, registration number 1/19598, and the Geological and the Mineralogical Museum of the Geological Institute of the Kola Science Centre, Apatity, Russia, registration number GIM 6790
How to cite: Yakovenchuk, V.N., Ivanyuk, G.Y., Krivovichev, S.V., Zhitova, E.A., Pakhomovsky, Y.A., Selivanova, E.A., Korchak, J.A. and Kadyrova, G.I. (2013) Kihlmanite-(Ce), IMA 2012-081. CNMNC Newsletter No. 15, February 2013, page 11; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-082**
Erzwiesite
$Ag_8Pb_{12}Bi_{16}S_{40}$
Unnamed prospect in the Erzwies mining district, Gastein Valley, Salzburg Province, Austria (47º5′40″N 13º2′15″E)
Dan Topa*, Emil Makovicky, Georg Zagler, Hubert Putz and Werner H. Paar
*E-mail: dan.topa@sbg.ac.at
Lillianite homologous series
Orthorhombic: *Cmcm*; structure determined
a = 4.085(5), b = 13.462(15), c = 33.92(4) Å
3.588(64), 3.387(98), 3.349(38), 3.288(86), 2.919(100), 2.846(99), 2.043(39), 2.039(44)
Type material is deposited in the collections of the Department of Materials Engineering and Physics, University of Salzburg, Salzburg, Austria, specimen number 15009
How to cite: Topa, D., Makovicky, E., Zagler, G., Putz, H. and Paar, W.H. (2013) Erzwiesite, IMA 2012-082. CNMNC Newsletter No. 15, February 2013, page 11; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-083**
Lopatkaite
$Pb_5Sb_3AsS_{11}$
Madoc, Ontario, Canada
Dan Topa*, Emil Makovicky, Hubert Putz and Georg Zagler
*E-mail: dan.topa@sbg.ac.at
Homeotype of boulangerite
Monoclinic: $P2_1/c$; structure determined
a = 8.0806(6), b = 23.360(2), c = 21.488(2) Å, β = 100.709(1)º
3.728(42), 3.722(38), 3.712(100), 3.296(36), 3.207(36), 2.804(42), 2.780(46), 2.779(40)
Type material is deposited in the collections of the Department of Materials Engineering and Physics, University of Salzburg, Salzburg, Austria, specimen number 15008
How to cite: Topa, D., Makovicky, E., Putz, H. and Zagler, G. (2013) Lopatkaite, IMA 2012-083. CNMNC Newsletter No. 15, February 2013, page 11; *Mineralogical Magazine*, **77**, 1–12.

IMA No. **2012-021a**
Vanadium
V
Colima volcano, Colima and Jalisco States, Mexico (19º30′45″N, 103º37′W)
Mikhail Ostroumov
*E-mail: ostroum@umich.mx
Iron group
Cubic: $Im\bar{3}m$
a = 3.022(3) Å
2.142(100), 1.513(14), 1.230(28), 1.069(8), 0.957(14), 0.871(4), 0.809(10)
Type material has been deposited in the collections of the Geological Museum,

Mexican National University, Mexico City, Mexico, sample number FIM 12/01

How to cite: Ostrooumov, M. (2013) Vanadium, IMA 2012-021a. CNMNC Newsletter No. 15, February 2013, page 11; *Mineralogical Magazine*, **77**, 1–12.

Nomenclature proposal approved in November 2012

IMA 12-C: Dumortierite supergroup

A report on the nomenclature of the minerals of the dumortierite supergroup has been approved, and the endmember compositions have been defined. The supergroup presently includes six valid species, divided into two groups (and a potential third group).

Nomenclature proposal approved in December 2012

IMA 12-F: A new root-name for the amphibole composition $\square(NaMn^{2+})(Mg_4Al)Si_8O_{22}(OH)_2$

The above composition, mentioned as "root-name11" in the newly-approved amphibole report, has been assigned the name "ghoseite", in honour of Subrata Ghose (b. 1932), Emeritus Professor at the University of Washington, Seattle, USA. Accordingly, the new mineral IMA 2003-066, whose endmember composition is $\square(NaMn^{2+})(Mg_4Fe^{3+})Si_8O_{22}(OH)_2$, is named ferri-ghoseite.