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

NEWSLETTER 13

New minerals and nomenclature modifications approved in 2012

P. A. WILLIAMS¹ (Chairman, CNMNC), F. HATERT² (Vice-Chairman, CNMNC), M. PASERO³ (Vice-Chairman, CNMNC) AND S. J. MILLS⁴ (Secretary, CNMNC)

¹ School of Science and Health, University of Western Sydney, Locked Bag 1797, Penrith, NSW 2751, Australia – p.williams@uws.edu.au
² Laboratoire de Minéralogie, Université de Liège, B-4000 Liège, Belgium – fhatert@ulg.ac.be
³ Dipartimento di Scienze della Terra, Università degli Studi di Pisa, Via Santa Maria 53, I-56126 Pisa, Italy – pasero@dst.unipi.it
⁴ Geosciences, Museum Victoria, GPO Box 666, Melbourne 3001, Victoria, Australia – smills@museum.vic.gov.au

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.2012.076.3.26
New mineral proposals approved in February 2012

IMA No. 2011-091
Rumseyite
Pb₂OClF
Torr Works (Merehead) Quarry, East Cranmore, Somerset, England
*E-mail: rturner@imbuia-holdings.com
Aurivillius structure type
Tetragonal: I4/mmm; structure determined
a = 4.065(1), c = 12.631(7) Å
6.306(17), 3.848(41), 2.923(100), 2.875(68),
2.110(12), 2.049(10), 1.719(9), 1.680(14)
Type material is deposited in the collections of the Natural History Museum, London, UK, catalogue number BM1970,110

IMA No. 2011-096
Fuxiaotuite
Ca₂Cu₉(AsO₄)₄(SO₄)₀.₅(OH)₉·9H₂O
Tangdan and Nanniping mines, Dongchuan copper mining district, Yao’an County, Cuxiong Autonomous Prefecture, Yunnan Province, People’s Republic of China (26º11’N 103º51’E)
Jeffrey de Fourestier*, Li Guowu, Glenn Poirier, Nikita V. Chukanov and Ma Zhesheng
*E-mail: jeffrey.defourestier@forces.gc.ca
Closely related to tyrolite
Monoclinic: C2/c; structure determined
a = 54.490(9), b = 5.5685(9), c = 10.4690(17) Å, β = 96.294(3)°
5.263(54), 4.782(100), 4.333(71), 3.949(47),
2.976(46), 2.631(41), 2.368(29), 1.744(24)
Type material is deposited in the collections of the Crystal Structure Laboratory, China University of Geosciences, Beijing 100083, People’s Republic of China, catalogue number TD1

IMA No. 2011-097
Oxy-chromium-dravite
NaCr₃(Cr₄Mg₂)(Si₆O₁₈)(BO₃)₃(OH)₃O
Pereval marble quarry, Stud'yanka, Irkutsk region, Siberia, Russia (51°37’N 103°38’E)
Ferdinando Bosi*, Leonid Rezeniskii and Henrik Skogby
*E-mail: ferdinando.bosi@uniroma1.it
Tourmaline supergroup
Trigonal: R₃m; structure determined
a = 16.0539(7), c = 7.3247(5) Å
6.480(62), 4.634(24), 4.270(44), 4.014(63), 3.542(50), 3.005(60), 2.600(100), 2.063(47)
Type material is deposited in the collections of the Museum of Mineralogy, Earth Sciences Department, Sapienza University of Rome, Rome, Italy, catalogue number 33064

IMA No. 2011-098
Debattistiite
Ag₉Hg₀.₅As₆S₁₂Te₂
Lengenbach quarry, Binn Valley, Valais, Switzerland
Alessandro Guastoni*, Luca Bindi and Fabrizio Nestola
*E-mail: alessandro.guastoni@unipd.it
New structure type
Triclinic: P1; structure determined
a = 7.832(5), b = 8.606(4), c = 10.755(5) Å, α = 95.563(9), β = 95.880(5), γ = 116.79(4)°
10.56(100), 7.582(4), 5.736(3), 4.038(3),
3.367(3), 3.301(4), 2.742(7), 2.733(7)
Type material is deposited in the collections of the Museum of Mineralogy of the Department of Geosciences at the University of Padova, Italy, catalogue number MMP M10680

IMA No. 2011-099
Takanawaite-(Y)
YTaO₄
Takanawa Mountain, Matsuyama City, Ehime Prefecture, Shikoku, Japan (33º56’N 132º51’E)
Daisuke Nishio-Hamane*, Tetsuo Minakawa
*E-mail: daisuke.nishio-hamane@jasg.go.jp
New structure type
Tetragonal: I₄/mmm; structure determined
a = 1.728(3) Å, c = 4.287(6) Å, α = 90°, β = 90°, γ = 90°
3.478(2), 2.742(7), 2.733(7)
Type material is deposited in the collections of the Museum of Mineralogy of the University of Padova, Italy, catalogue number MMP M10680
and Yukikazu Ohgoshi
*E-mail: hamane@issp.u-tokyo.ac.jp
Polymorph of iwashiroite-(Y), formanite-(Y) and yttrotantalite-(Y)
Monoclinic: $I\overline{2}a$; structure determined
$a = 5.3182(7), b = 10.957(1), c = 5.0597(7) \ \text{Å}, \beta = 94.99(1)^\circ$
$3.133(100), 2.953(85), 2.739(29), 2.649(21), 1.912(24), 1.905(39), 1.855(26), 1.573(18)$
Type material is deposited in the collections of the National Museum of Nature and Science, Tokyo, Japan, specimen number NSM M-43517

IMA No. 2011-100
Foreîtite
Cu$_2$Al$_2$(AsO$_4$)(OH,O,H$_2$O)$_6$
Cap Garonne mine, Var, Provence-Alpes-Côte d’Azur, France
Stuart J. Mills*, Anthony R. Kampf, Andrew M. McDonald, Georges Favreau and Pierre-Jacques Chiappero
*E-mail: smills@museum.vic.gov.au
New structure type
Triclinic: $P\overline{1}$; structure determined
$a = 6.969(9), b = 7.676(9), c = 8.591(11) \ \text{Å}, \alpha = 82.01(9), \beta = 71.68(8)^\circ$
$7.307(100), 4.519(23), 4.277(18), 3.455(17), 3.141(24), 2.818(24), 2.719(20), 2.343(22)$
Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, USA, catalogue numbers 63578, 63579, 63580, 63581 and 63582

IMA No. 2011-103
Hydrokenomicrolite
(Ca,H$_2$O)$_2$Ta$_2$(O$_4$OH)$_8$(H$_2$O)
Volta Grande pegmatite, Nazareno, Minas Gerais, Brazil
Marcelo B. Andrade, Daniel Atencio*, Nikita V. Chukanov and Javier Ellena
*E-mail: datencio@usp.br
Pyrochlore supergroup
Cubic: $Fd\overline{3}m$; structure determined
$a = 10.5733(9) \ \text{Å}$
$6.112(86), 3.191(52), 3.052(100), 2.642(28), 2.035(11), 1.869(29), 1.788(10), 1.594(24)$
Type material is deposited in the collections of the Museu de Geociências, Instituto de Geociências, Universidade de São Paulo, São Paulo, Brazil, registration number DR725

IMA No. 2011-104
Saltonseait
K$_3$NaMnCl$_6$
Salton Sea, Imperial County, California, USA (33º07'N 115º41'W)
Anthony R. Kampf*, Stuart J. Mills, Fabrizio Nestola and Anatoly Kasatkin
*E-mail: akampf@nhm.org
Mn analogue of rinneite
Trigonal: $R\overline{3}c$; structure determined
$a = 12.0966(5), c = 13.9555(10) \ \text{Å}$
5.831(61), 3.498(25), 2.851(68), 2.689(32), 2.625(62), 2.542(100), 1.983(32), 1.384(22)

Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 23604, and Museum Victoria, Melbourne, Australia, catalogue number M51615.


IMA No. 2011-105
Nashite
Na₃Ca₂[V⁵⁺V⁴⁺]O₂₈·2₄H₂O
Little Eva mine, Yellow Cat District, Grand County, Utah, USA, and the St Jude mine, Slick Rock district, San Miguel County, Colorado, USA.

Anthony R. Kampf*, John M. Hughes, Joe Marty and Francis Brown
*E-mail: akampf@nhm.org

New structure type
Monoclinic: P2₁/n; structure determined
a = 10.0099(3), b = 21.8472(7), c = 11.1504(7) Å, \( \beta = 116.584(8)° \)


Type material is deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue numbers 63583 (holotype) and 63584 (Little Eva mine), and 63585, 63586 and 63587 (St Jude mine).


IMA No. 2011-106
Putnisite
SrCa₄Cr⁺₈(CO₃)₈SO₄(OH)₁₆·2₃H₂O
Polar Bear peninsula, Lake Cowan, Norseman, Western Australia, Australia (121°49' E 31°56'S).

Peter Elliott*, Gerald Giester, Ralph Rowe and Allan Pring
*E-mail: peter.elliott@adelaide.edu.au

New structure type
Orthorhombic: Pnma; structure determined
a = 15.351(3), b = 20.421(4), c = 18.270(4) Å
13.577(100), 7.659(80), 7.095(10), 5.084(19), 4.901(13), 3.385(7), 3.689(16), 3.594(7)

Type material is deposited in the collections of the South Australian Museum, Adelaide, South Australia, Australia, registration number G33429, and the Canadian Museum of Nature, Ottawa, Canada, catalogue number CMNMC 86133.


IMA No. 2011-107
Christofscha¨ferite-(Ce)
(Ce,La,Ca)₂Mn(Ti,Fe)₃(Fe,Ti)(Si₂O₇)₂O₈
Wingertsberg, near Mendig, Laacher See area, Eifel Mountains, Rhineland-Palatinate, Germany.

Nikita V. Chukanov*, Sergey M. Aksenov, Ramiza K. Rastsvetaeva, Dmitriy I. Belakovskiy, Jörg Göttlicher, Sergey N. Britvin and Konstantin V. Van
*E-mail: chukanov@icp.ac.ru

Mn²⁺-dominant member of the chevkinite group
Monoclinic: P2₁/m; structure determined
a = 13.3722(4), b = 5.7434(1), c = 11.0862(2) Å, \( \beta = 100.580(2)° \)

New mineral proposals approved in March 2012

IMA No. 2011-102
Luanshiweite-2M₁
K₃LiAl₁.₃(Si₃.₅Al₀.₅)O₁₆(OH)₂
#309 pegmatite vein, Guangpo, Lushi County, Henan Province, China (33°52.480’N 110°42.760’E).

Fan Guang*, Li Guowu, Shen Ganfu, Xu Jinsha and Dai Jie
*E-mail: fanguang2008@163.com

New structure type
Monoclinic: C2/c; structure determined
a = 5.1861(7), b = 8.9857(13), c = 19.970(3) Å, \( \beta = 95.420(3)° \)

9.891(35), 4.451(31), 3.468(42), 3.314(36), 2.973(34), 2.565(100), 2.378(31), 1.986(30)

Type material is deposited in the collections of the Geological Museum of China, Beijing, China, registration number M11797.


IMA No. 2011-106
Putnisite
SrCa₄Cr⁺₈(CO₃)₈SO₄(OH)₁₆·2₃H₂O
Polar Bear peninsula, Lake Cowan, Norseman, Western Australia, Australia (121°49’E 31°56’S).

Peter Elliott*, Gerald Giester, Ralph Rowe and Allan Pring
*E-mail: peter.elliott@adelaide.edu.au

New structure type
Orthorhombic: Pnma; structure determined
a = 15.351(3), b = 20.421(4), c = 18.270(4) Å
13.577(100), 7.659(80), 7.095(10), 5.084(19), 4.901(13), 3.385(7), 3.689(16), 3.594(7)

Type material is deposited in the collections of the South Australian Museum, Adelaide, South Australia, Australia, registration number G33429, and the Canadian Museum of Nature, Ottawa, Canada, catalogue number CMNMC 86133.


IMA No. 2011-107
Christofscha¨ferite-(Ce)
(Ce,La,Ca)₂Mn(Ti,Fe)₃(Fe,Ti)(Si₂O₇)₂O₈
Wingertsberg, near Mendig, Laacher See area, Eifel Mountains, Rhineland-Palatinate, Germany.

Nikita V. Chukanov*, Sergey M. Aksenov, Ramiza K. Rastsvetaeva, Dmitriy I. Belakovskiy, Jörg Göttlicher, Sergey N. Britvin and Konstantin V. Van
*E-mail: chukanov@icp.ac.ru

Mn²⁺-dominant member of the chevkinite group
Monoclinic: P2₁/m; structure determined
a = 13.3722(4), b = 5.7434(1), c = 11.0862(2) Å, \( \beta = 100.580(2)° \)
Lusernaite-(Y)

\[ \text{Y}_4\text{Al}(\text{CO}_3)\text{OH})_{10}\text{F} \cdot 6\text{H}_2\text{O} \]

Seccarezz quarry, Luserna Valley, Luserna San Giovanni, Torino, Piedmont, Italy (44°45'80"N 7°12'08"E)

Cristian Biagioni*, Elena Bonaccorsi, Fernando Câmara, Marcella Cadoni, Marco E. Ciriotti, Danilo Bersani and Uwe Kolitsch

*E-mail: biagioni@dst.unipi.it

New structure type

Orthorhombic: \( Pmna \); structure determined

\[ a = 7.839(2), \quad b = 11.023(2), \quad c = 11.383(2) \ \text{Å} \]

Type material is deposited in the collections of the Museo di Storia Naturale e del Territorio, Università di Pisa, Calci (Pisa), Italy, catalogue number 19445, and the Museo Regionale di Scienze Naturali, Turin, Italy, catalogue number 15901


IMA No. 2011-109

Tubulite

\[ \text{Ag}_2\text{Pb}_2\text{Sb}_2\text{O}_7 \]

Rivet quarry, Peyrebrune ore field, Réalmont, Tarn Department, France (43°45'42"N 02°14'16"E), and in the Veneziana and Torinese galleries, Borgofranco mines complex, Biò, Borgofranco d'Ivrea ore district, Torino, Piedmont, Italy (45°31'07"N 7°51'53"E)

Y. Moeöl*, R. Pecorini, M. E. Ciriotti, M. Meisser, M. Caldes-Rouillon, P. Orlandi, P.E. Petit, B. Martini and A. Salvetti

*E-mail: Yves.Moeölo@cnrs-imn.fr

Zinckenite group

Monoclinic: \( P2/c \) or \( P2_1/c \)

\[ a = 4.132(2), \quad b = 43.1(2), \quad c = 27.4(1) \ \text{Å}, \quad \beta = 93.2(3)° \]

5.32(45), 3.99(35), 3.69(60), 3.36(100), 3.28(55), 2.99(55), 2.91(55), 2.063(75)

Type material is deposited in the collections of the Museum of Mineralogy of the Ecole Nationale Supérieure des Mines de Paris, Paris, France, catalogue number M 82939, the Museo Regionale di Scienze Naturali, Torino, Italy, catalogue number 15905, the Museo di Storia Naturale e del Territorio, Università di Pisa, Calci (Pisa), Italy, catalogue number 19445, and the Musée Cantonal de Géologie, Université-Anthropole, Lausanne, Switzerland, catalogue number MGL#92635


IMA No. 2011-111

Fuettererite

\[ \text{PbFe}^{2+}_7\text{AlSi}_{27}\text{O}_{27}\cdot5\text{H}_2\text{O} \]

NE2 vein, Otto Mountain, Baker, San Bernardino County, California, USA (35.27776°N, 116.09331°W)

Anthony R. Kampf*, Stuart J. Mills, Robert M. Housley and Joseph Marty

*E-mail: akampf@nhm.org

New structure type

Hexagonal: \( R3 \)

\[ a = 8.4035(12), \quad c = 44.681(4) \ \text{Å} \]

6.106(44), 3.733(100), 2.749(53), 2.669(49), 2.529(41), 1.964(87), 1.900(48), 1.584(44)

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 numbers 63588 and 63589

IMA No. 2011-112
Fluorchegemite
Ca$_7$(SiO$_4$)$_3$F$_2$
Upper Chegem volcanic caldera, Kabardino-Balkaria, North Caucasus, Russia (43°17'N, 43°6'E)
*E-mail: irina.galuskina@us.edu.pl
F-dominant analogue of chegemite
Orthorhombic: $Pbnm$; structure determined
$a = 5.0620(1)$, $b = 11.3917(2)$, $c = 23.5180(3)$ Å
3.636(52), 3.013(57), 2.991 (56), 2.832(51), 2.718(63), 2.699(46), 2.531(100), 1.905(95)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, catalogue number 4163/1

IMA No. 2011-113
Hydroxyledgrewite
Ca$_9$(SiO$_4$)$_4$(OH)$_2$
Upper Chegem volcanic caldera, Kabardino-Balkaria, North Caucasus, Russia (43°17'N, 43°6'E)

IMA No. 2011-114
Vanackerite
Pb$_4$Cd(AsO$_4$)$_3$(Cl,OH)
Tsumeb ore deposit, Tsumeb, Namibia
Jochen Schlüter*, Thomas Malcherek and Georg Gebhard
*E-mail: Jochen.Schlueter@uni-hamburg.de
Related to apatite group structures
Trigonal: $P3_1$; structure determined
$a = 10.0321(1)$, $c = 7.3001(1)$ Å
4.140(10), 3.290(34), 2.982(100), 2.067(16), 1.944(11), 1.875(8), 1.635(10), 1.523(10)
Type material is deposited in the collections of the Mineralogical Museum of the University of Hamburg, Hamburg, Germany, registration number TS 706

IMA No. 2011-115
Agaite
Pb$_3$CuTeO$_5$(OH)$_2$(CO$_3$)
Aga mine, Otto Mountain, Baker, San Bernardino County, California, USA (35.27215°N 116.09487°W)
Anthony R. Kampf*, Stuart J. Mills, Robert M. Housley and Joseph Marty
*E-mail: akampf@nhm.org
New structure type
Orthorhombic: $Pca_2_1$; structure determined
$a = 10.6522(7)$, $b = 9.1630(5)$, $c = 9.6011(7)$ Å
4.26(28), 4.165(14), 3.303(100), 2.747(68), 2.571(14), 2.081(21), 2.031(17), 1.747(40)
Type material is deposited in the collections of the Mineral Sciences Department, Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue number 63590
IMA No. 2012-002
Lahnsteinite
Zn$_4$(SO$_4$)(OH)$_6$·3H$_2$O
Friedrichsengebirge, Lahnstein, Lahn valley, Rhineland-Palatinate, Germany (50º18'11''N 7º40'17''E)
Nikita V. Chukanov*, Ramiza K. Rastsvetaeva, Sergey M. Aksenov, Igor V. Pekov, Dmitriy I. Belakovskiy, Günter Bläβ and Gerhard Mohn
*E-mail: nikhchukanov@yandex.ru
Chemically related to namuwite and osakaite
Triclinic: P1; structure determined
a = 8.3125(6), b = 14.545(1), c = 18.504(2) Å
α = 89.71(1), β = 90.05(1), γ = 90.13(1)º
9.30(100), 4.175(18), 3.476(19), 3.290(19), 2.723(57), 2.624(36), 2.503(35), 1.574(25)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4252/1

IMA No. 2012-003
Yaroshevskite
Cu$_9$O$_2$(VO$_4$)$_4$Cl$_2$
Yadovitaya fumarole, Second scoria cone, Tolbachik volcano, Kamchatka peninsula, Kamchatka Oblast’, Far-Eastern Region, Russia (55º41'0''N 160º14'0''E)
Igor V. Pekov*, Michael E. Zelenski, Natalia V. Zubkova, Vasiliy O. Yapaskurt, Yury S. Polekhovsky and Dmitry Y. Pushcharovsky
*E-mail: igorpekov@mail.ru
New structure type
Triclinic: P1; structure determined
a = 6.4344(11), b = 8.3232(13), c = 9.1726(16) Å
α = 105.38(1), β = 96.113(14), γ = 107.642(1)º
8.65(100), 6.84(83), 6.01(75), 5.52(62), 4.965(55), 4.198(67), 4.055(65), 2.896(60)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4226/1

IMA No. 2012-005
Hydroxymanganopyrochlore
(Mn,Th,Na,REE)$_2$(Nb,Ti)O$_6$(OH)
Dellen (Ziegloveski) quarry, Mendig, Laacher See area, Eifel region, Rheinland-Pfalz, Germany
Nikita V. Chukanov*, Günter Bläβ, Nataliya V. Zubkova, Igor V. Pekov, Dmitriy Y. Pushcharovsky and Herbert Prinz
*E-mail: chukanov@icp.ac.ru
Pyrochlore supergroup
Cubic: Fd3m; structure determined
a = 10.2523(2) Å
2.969(100), 2.569(40), 2.358(12), 1.816(47), 1.548(40), 1.481(14), 1.284(10), 1.178(14)
Type material is deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4226/1

IMA No. 2012-006
Stěpite
U(AsO$_3$OH)$_2$·4H$_2$O
Geschieber vein, Svornost shaft, Jáchymov ore district, western Bohemia, Czech Republic
Jakub Plaší*, Karla Fejfarová, Jan Hlousk, Radek Škoda, Milan Novák, Jiří Sejkora, Jiří Čejka, František Veselovský, Petr Ondruš, Juraj Majzlán and Zdeněk Mrázek
*E-mail: jakub.horrak@gmail.com
New structure type
Tetragonal: I41/acd; structure determined
a = 10.9894(1), c = 32.9109(6) Å
8.190(100), 7.008(43), 5.475(18), 4.111(16), 3.934(12), 3.395(20), 2.933(18), 2.154(25)
Type material is deposited in the collections of the Department of Mineralogy and Petrology of the National Museum in Prague, Prague, Czech Republic, catalogue number P1P 7/2011
IMA No. 2012-007
Babánekite
Cu$_3$(AsO$_4$)$_2$·8H$_2$O
Geister vein, Rovnost mine, Jáchymov ore district, western Bohemia, Czech Republic
Jakub Plášil*, Karla Fejfarová, Radek Škoda, Pavel Škácha, Jiří Sejkora, František Veselovský, Jan Hloušek and Milan Novák
*E-mail: jakub.horrak@gmail.com
Monoclinic: C$2$/m; structure determined
$a = 10.1742(2)$, $b = 13.5104(3)$, $c = 4.7489(1)$ Å, $\beta = 105.416(2)^\circ$
Type material is deposited in the collections of the Department of Mineralogy and Petrology of the National Museum in Prague, Prague, Czech Republic, catalogue number P1P 8/2011

New mineral proposals approved in May 2012

IMA No. 2012-008
Brownite
MnS
Zaklodzie meteorite, Zamosc, Poland
Chi Ma
*S-E-mail: chi@gps.caltech.edu
Sphalerite group
Cubic: F43m
$a = 5.601$ Å
3.234(100), 1.980(63), 1.689(39), 1.400(9), 1.285(14), 1.143(19), 0.947(14), 0.886(14)
Type material is deposited in the collections of the Smithsonian Institution’s National Museum of Natural History, Washington DC, USA, registration number USNM 7607

IMA No. 2012-001
Joanneumite
Cu(C$_3$N$_3$O$_3$H$_2$)$_2$N(CH$_3$)$_2$
Caleta Pabellon de Pica, Tarapaca, Chile (20º55'S 70º08'W)
Hans-Peter Bojar* and Franz Walter
*S-E-mail: hans-peter.bojar@museum-joanneum.at
New structure type
Triclinic: P$\bar{1}$; structure determined
$a = 5.042(1)$, $b = 6.997(1)$, $c = 9.099(2)$ Å, $\alpha = 90.05(3)$, $\beta = 98.11(2)$, $\gamma = 110.95(3)^\circ$
Type material is deposited in the collections of the Universalmuseum Joanneum, Weinzöttlstraße 16, A-8045 Graz, Austria, catalogue number 85.011
IMA No. 2012-009
Lavoisierite
Mn$^{2+}$[Al$_{10}$(Mn$^{3+}$Mg)][Si$_4$P$_4$(OH)$_{12}$
Punta Gensane, Vi (TO), Piedmont, Italy
Paolo Orlandi*, Cristian Biagioni, Marco Pasero and Marcello Mellini
*E-mail: orlandi@dst.unipi.it
Related to sursassite and ‘ardennite’
Orthorhombic: Pnmm; structure determined
a = 8.689(1), b = 5.7755(3), c = 36.950(2) Å
4.62(m), 4.23(m), 3.167(m), 2.931(vs), 2.765(s),
2.598(s), 2.448(ms), 2.318(m)
Type material is deposited in the collections of
the Museo di Storia Naturale e del Territorio,
Universita` di Pisa, Calci (Pisa), Italy, catalogue
number 19637, and the Museo Regionale di
Scienze Naturali, Torino, Italy, catalogue
number M/U16359
How to cite: Orlandi, P., Biagioni, C., Pasero,
2012-009. CNMNC Newsletter No. 13, June
2012, page 815; Mineralogical Magazine,
76, 807–817.
IMA No. 2012-010
Magnesiorowlandite-(Y)
Y$_4$(Mg,Fe)$_2$(Si$_2$O$_7$)F$_2$
Komono, Mie Prefecture, Japan (35°0'35"N
136°27'33"E)
Satoshi Matsubara*, Ritsuro Miyawaki, Kazumi
Yokoyama, Masako Shigeoka, Koichi Momma
and Sadaoki Yamamoto
*E-mail: matubara@kahaku.go.jp
Mg analogue of rowlandite-(Y)
Triclinic: P1; structure determined
a = 6.555(12), b = 8.65(2), c = 5.530(14) Å,
α = 99.3(3), β =104.14(19), γ = 91.4(2)°
4.95(33), 3.64(37), 3.54(38), 3.08(100),
2.92(26), 2.68(32), 2.63(28), 2.09(35)
Type material is deposited in the collections of
the National Museum of Nature and Science,
Tokyo, registered number NSM-M43624
How to cite: Matsubara, S., Miyawaki, R.,
Yokoyama, K., Shigeoka, M., Momma, K. and
IMA 2012-010. CNMNC Newsletter No. 13,
June 2012, page 815; Mineralogical Magazine,
76, 807–817.
IMA No. 2012-011
Cerchiaraite-(Al)
Ba$_4$Al$_4$O$_3$(OH)$_3$(Si$_4$O$_12$)[Si$_2$O$_3$(OH)$_4$]Cl
Esquire #1 claim, Rush Creek, Fresno County,
California, USA (37°05'N, 119°16'20"W) and
Esquire #7 and #8 claims, Big Creek, Fresno
County, California, USA (Esquire #7:
36°56'40"N 119°14'28"W; Esquire #8:
36°56'42"N 119°14'12"W)
Anthony R. Kampf*, Andrew C. Roberts,
Katherine E. Venance, Gail E. Dunning, and
Robert E. Walstrom
*E-mail: akampf@nhm.org
Al analogue of cerchiaraite
Tetragonal: I4/mmm; structure determined
a = 14.317(4), c = 6.0037(18) Å
10.15(39), 4.407(39), 3.316(74), 3.009(100),
2.580(93), 2.029(43), 1.880(68), 1.403(54)
Type material is deposited in the collections of
the Natural History Museum of Los Angeles
County, Los Angeles, California, USA, cata-
logue numbers 63519, 63517 and 63518
How to cite: Kampf, A.R., Roberts, A.C.,
Venance, K.E., Dunning, G.E. and Walstrom,
CNMNC Newsletter No. 13, June 2012, page
815; Mineralogical Magazine, 76, 807–817.
IMA No. 2012-012
Cerchiaraite-(Fe)
Ba$_4$Fe$_3^+$$_4$O$_3$(OH)$_3$(Si$_4$O$_12$)[Si$_2$O$_3$(OH)$_4$]Cl
Cerchiara mine, Borghetto Vara, Vara Valley,
La Spezia Province, Liguria, Italy, and the
Esquire #7 and #8 claims, Big Creek, Fresno
County, California, USA (Esquire #7:
36°56'40"N 119°14'28"W; Esquire #8:
36°56'42"N 119°14'12"W)
Anthony R. Kampf*, Andrew C. Roberts,
Katherine E. Venance, Cristina Carbone, Gail
E. Dunning, and Robert E. Walstrom
*E-mail: akampf@nhm.org
Fe analogue of cerchiaraite
Tetragonal: I4/mmm; structure determined
a = 14.3354(19), c = 6.0151(8) Å
4.403(26), 3.327(48), 3.016(70), 2.595(100),
2.258(29), 1.812(39), 1.411(43), 1.298(29)
Type material is deposited in the collections of
the Natural History Museum of Los Angeles
County, Los Angeles, California, USA, cata-
logue numbers 63515, 63516, 63517 and 63518
How to cite: Kampf, A.R., Roberts, A.C.,
Venance, K.E., Carbone, C., Dunning, G.E.
and Walstrom, R.E. (2012) Cerchiaraite-(Fe),
IMA 2012-012. CNMNC Newsletter No. 13,
June 2012, page 815; Mineralogical Magazine,
76, 807–817.
Tellurocanfieldite
Ag₈SnTe₂S₄
Bajiazi lead-zinc deposit, Jianchang County, Liaoning Province, China (40°35'30'' N 120°02'16'' E)
Gu Xiangping*, Xie Xiande, Lu Anhuai, Kenich Hoshino, Huang Jiwu and Li Jielan
*E-mail: guxp2004@163.com
Argyrodite-canfieldite series
Orthorhombic: Pna₂₁
a = 15.615(4), b = 7.803(3), c = 11.043(7) Å
6.373(21), 3.330(28), 3.186(85), 2.759(49), 2.253(100), 2.124(71), 1.951(51), 1.865(27)
Type material is deposited in the collections of the Geological Museum of China, Beijing People’s Republic of China, catalogue number M111801

Schlüterite-(Y)
Cu₃Cl(OH)₆
Stetind pegmatite, Tysfjord, Nordland, Norway (68°10’15.20” N 16°33’10.65” E)
Mark A. Cooper, Tomas Husdal, Neil Ball, Frank C. Hawthorne* and Yassir Abdu
*E-mail: frank_hawthorne@umanitoba.ca
Related to members of the epidote group
Monoclinic: P2₁/c; structure determined
a = 7.0722(2), b = 5.6198(1), c = 21.4390(4) Å, β = 122.7756(3)°
4.768(100), 4.522(40), 3.297(48), 2.982(57), 2.813(39), 2.731(42), 2.634(42), 2.180(36)
Type material is deposited in the collections of the Department of Natural History, Royal Ontario Museum, Toronto, Ontario, Canada, catalogue number M56409, and the Naturhistorisk Museum, Blindern, Oslo, Norway, catalogue numbers 42428 and 42429

Fluorowardite
NaAl₃(PO₄)₂F₂(OH)₂(H₂O)₂
Silver Coin mine, Valmy, Iron Point district, Humboldt County, Nevada, USA (40°55’44” N 117°19’26” W)
Anthony R. Kampf*, Paul M. Adams and Robert M. Housley
*E-mail: akampf@nhm.org
Fluorine analogue of wardite
Tetragonal: P4₁2₁2; structure determined
a = 7.077(2), c = 19.227(3) Å
4.766(100), 3.099(75), 3.008(62), 2.834(28), 2.597(56), 1.763(32), 1.659(29), 1.523(49)
Type material is deposited in the collections of the Mineral Sciences Department, Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue numbers 57659 and 63810

Nomenclature proposals approved in November 2011
IMA No. 2012-017
Raberite
Tl₅Ag₄As₆SbS₁₅
Lengenbach quarry, Binn Valley, Valais, Switzerland
Luca Bindi*, Fabrizio Nestola, Alessandro Guastoni, Luca Peruzzo, Markus Ecker and Raul Carampin
*E-mail: luca.bindi@unifi.it
New structure type
Triclinic: P1; structure determined
a = 8.920(1), b = 9.429(1), c = 20.062(3) Å, α = 79.66(1), β = 88.84(1), γ = 62.72(1)°
3.580(100), 3.506(58), 3.281(73), 3.017(54), 3.001(98), 2.657(51), 2.636(46), 2.591(57)
Type material is deposited in the collections of the Museum of Mineralogy of the Department of Geosciences, University of Padova, Italy, catalogue number MMP M11420

IMA No. 2012-012
Matulaite
Fe³⁺Al₇(PO₄)₄(PO₃OH)₂(OH)₈(H₂O)₈·8H₂O
Specimens NHMLAC 816
P. A. WILLIAMS ET AL.
#28323 and #28324 are designated as the neotypes for the species, and are deposited in collections of the Natural History Museum of Los Angeles County, Los Angeles, USA.

**IMA 11-E:** The proposal to redefine vanadium-dravite has been approved. Vanadium-dravite is renamed oxy-vanadium-dravite, since the mineral belongs to the alkali group, oxy-subgroup 3 of the tourmaline supergroup nomenclature. The ideal formula of the mineral becomes NaV$_3$(V$_4$Mg$_2$)Si$_6$O$_{18}$ (BO$_3$)$_3$(OH)$_3$O.

**IMA 11-F:** The proposal to modify the nomenclature of the hollandite supergroup has been approved. Hollandite is redefined as the Ba$^{2+}$-Mn$^{3+}$ endmember of the coronadite group, with an ideal formula Ba(Mn$^{4+}$Mn$^{3+}$)$_6$O$_{16}$, and the name ferrihollandite is introduced to designate the Ba$^{2+}$-Fe$^{3+}$ endmember of this group, with an ideal formula Ba(Mn$^{4+}$Fe$^{3+}$)$_6$O$_{16}$. The mineral ankangite is discredited, since it corresponds to mannardite. Moreover, the ideal endmember formulae of six potentially new species in the hollandite supergroup are defined.

**Nomenclature proposals approved in April 2012**

**AMPHIBOLE SUPERGROUP:** A new nomenclature scheme for the amphibole supergroup was approved by CNMNC on the 3rd of April 2012.

**GARNET SUPERGROUP:** A new nomenclature scheme for the garnet supergroup was approved by the CNMNC on the 3rd of April, 2012. The garnet supergroup includes at present 32 valid species, for which endmember formulae are given. There are 4 potential new mineral species which need further study in order to be approved. Some changes among existing mineral names were also approved.