

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

## NEWSLETTER 14

---

### New minerals and nomenclature modifications approved in 2012

P. A. WILLIAMS<sup>1</sup> (Chairman, CNMNC), F. HATERT<sup>2</sup> (Vice-Chairman, CNMNC), M. PASERO<sup>3</sup> (Vice-Chairman, CNMNC) AND S. J. MILLS<sup>4</sup> (Secretary, CNMNC)

<sup>1</sup> School of Science and Health, University of Western Sydney, Locked Bag 1797, Penrith, NSW 2751, Australia – p.williams@uws.edu.au

<sup>2</sup> Laboratoire de Minéralogie, Université de Liège, B-4000 Liège, Belgium – fhatert@ulg.ac.be

<sup>3</sup> Dipartimento di Scienze della Terra, Università degli Studi di Pisa, Via Santa Maria 53, I-56126 Pisa, Italy – pasero@dst.unipi.it

<sup>4</sup> Geosciences, Museum Victoria, PO Box 666, Melbourne, Victoria 3001, 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

## ERRATA

## IMA No. 2011-111 Fuettererite

The given chemical formula for the mineral is incorrect (Kampf, A.R., Mills, S.J., Housley, R.M. and Marty, J. (2012) Fuettererite, IMA 2011-111. CNMNC Newsletter No. 13, June 2012, page 811; *Mineralogical Magazine*, **76**, 807–817). The correct formula is  $\text{Pb}_3\text{Cu}_6^{2+}\text{Te}^{6+}\text{O}_6(\text{OH})_7\text{Cl}_5$ .

## IMA No. 2012-015 Schlüterite-(Y)

The given chemical formula for the mineral is incorrect (Cooper, M.A., Husdal, T., Ball, N., Hawthorne, F.C. and Abdu, Y. (2012) Schlüterite-(Y), IMA 2012-015. CNMNC Newsletter No. 13, June 2012, page 816; *Mineralogical Magazine*, **76**, 807-817). The correct formula is  $(\text{Y},\text{REE})_2\text{AlSi}_2\text{O}_7(\text{OH})_2\text{F}$ .

## 2012 MINERAL APPROVAL WITHDRAWN

## IMA No. 2012-013 Tellurocanfieldite

Approval for this mineral has been withdrawn (Gu, X., Xie, X., Lu, A., Hoshino, H., Huang, J. and Li, J. (2012) Tellurocanfieldite, IMA 2012-013. CNMNC Newsletter No. 13, June 2012, page 816; *Mineralogical Magazine*, **76**, 807–817). A subsequent single-crystal structural analysis has shown that Te is disordered over the three sulfur sites and thus the material is in fact Te-rich canfieldite.

## NEW MINERAL PROPOSALS APPROVED IN JUNE 2012

## IMA No. 2012-014

Fejerite  
 $\text{Cu}_4\text{ClF}(\text{OH})_6$   
 Mina Ojuela, Mapimí, Durango, Mexico (25°47'37"N 103°47'28"W)  
 Mike S. Rumsey\*, Mark D. Welch, Anthony R. Kampf, Caroline A. Kirk, Gordon Cressey and John Spratt  
 \*E-mail: m.rumsey@nhm.ac.uk  
 Isostructural with claringbullite and barlowite  
 Hexagonal:  $P6_3/mmc$ ; structure determined  
 $a = 6.6678(6)$ ,  $c = 9.1728(9)$  Å  
 5.778(84), 4.881(25), 2.886(21), 2.699(100), 2.444(64), 2.294(18), 1.797(23), 1.668(21)  
 Type material is deposited in the collections of the Natural History Museum, London, UK,

registration number BM 2011,53

How to cite: Rumsey, M.S., Welch, M.D., Kampf, A.R., Kirk, C.A., Cressey, G. and Spratt, J. (2012) Fejerite, IMA 2012-014. CNMNC Newsletter No. 14, October 2012, page 1282; *Mineralogical Magazine*, **76**, 1281–1288.

## IMA No. 2012-018

Arangasite  
 $\text{Al}_2(\text{SO}_4)(\text{PO}_4)\text{F}\cdot 7.5\text{H}_2\text{O}$   
 Alyaskitovoe deposit, Indigirka River basin, East Yakutia, Russia (64°39' N 142°70'E)  
 Gennady N. Gamyarin\*, Nadezhda V. Zayakina and Larisa T. Galenichkova  
 \*E-mail: ggn@igem.ru

Chemically related to sanjuanite and mitryaevaite  
 Monoclinic:  $P2_1$

$a = 9.740(5)$ ,  $b = 19.31(1)$ ,  $c = 10.688(5)$  Å,  
 $\beta = 98.65(8)^\circ$   
 10.57(36), 9.60(100), 7.123(23), 5.295(34), 4.695(17), 4.191(29), 3.218(50), 2.870(20)

Type material is deposited in the collections of the Fersman Museum of the Russian Academy of Science, Moscow, Russia, catalogue number 4254/1

How to cite: Gamyarin, G.N., Zayakina, N.V. and Galenichkova, L.T. (2012) Arangasite, IMA 2012-018. CNMNC Newsletter No. 14, October 2012, page 1282; *Mineralogical Magazine*, **76**, 1281–1288.

## IMA No. 2012-019

Bobmeyerite  
 $\text{Pb}_4\text{Al}_4(\text{Si}_4\text{O}_{12})(\text{OH})_{11}\text{Cl}(\text{H}_2\text{O})$   
 Mammoth-Saint Anthony mine, Tiger, Pinal County, Arizona, USA (32°42'23"N 110°40'59"W)

Anthony R. Kampf\*, Joseph J. Pluth, Yu-Sheng Chen, Andrew C. Roberts and Robert M. Housley

\*E-mail: akampf@nhm.org

Closely related to cerchiarite and ashburtonite  
 Orthorhombic:  $Pnmm$ ; structure determined  
 $a = 13.969(9)$ ,  $b = 14.243(10)$ ,  $c = 5.893(4)$  Å  
 10.051(35), 5.474(54), 5.011(35), 4.333(43), 3.278(77), 2.966(88), 2.549(100), 1.873(39)

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 63824, 63825 and 63826

How to cite: Kampf, A.R., Pluth, J.J., Chen, Y.-

S., Roberts, A.C. and Housley, R.M. (2012) Bobmeyerite, IMA 2012-019. CNMNC Newsletter No. 14, October 2012, page 1282; *Mineralogical Magazine*, **76**, 1281–1288.

**IMA No. 2012-020**

Iseite  
 $\text{Mn}_2\text{Mo}_3\text{O}_8$   
 Shobu area, Ise City, Mie Prefecture, Japan  
 (34°29'N 136°43'E)  
 Daisuke Nishio-Hamane\*, Norimitsu Tomita,  
 Tetsuo Minakawa and Sachio Inaba  
 \*E-mail: hamane@issp.u-tokyo.ac.jp  
 Mn-dominant analogue of kamiokite  
 Hexagonal:  $P6_3mc$   
 $a = 5.8080(8)$ ,  $c = 10.212(3)$  Å  
 5.107(68), 3.584(95), 2.820(45), 2.525(100),  
 2.442(95), 2.023(49), 1.659(47), 1.587(72)  
 Type material is deposited in the collections of  
 the National Museum of Nature and Science,  
 Tsukuba, Japan, specimen number NSM  
 M-43652  
 How to cite: Nishio-Hamane, D., Tomita, N.,  
 Minakawa, T. and Inaba, S. (2012) Iseite, IMA  
 2012-020. CNMNC Newsletter No. 14, October  
 2012, page 1283; *Mineralogical Magazine*, **76**,  
 1281–1288.

**IMA No. 2012-022**

Oxycalcioroméite  
 $\text{Ca}_2\text{Sb}_2\text{O}_7$   
 Buca della Vena mine, Apuan Alps, Tuscany,  
 Italy (43°59'55"N 10°18'37"E)  
 Cristian Biagioni\* and Paolo Orlandi  
 \*E-mail: biagioni@dst.unipi.it  
 Pyrochlore supergroup  
 Cubic:  $Fd\bar{3}m$ ; structure determined  
 $a = 10.3042(7)$  Å  
 5.93(32), 3.105(24), 2.977(100), 2.576(24),  
 1.984(8), 1.824(45), 1.556(34), 1.489(8)  
 Type material is deposited in the collections of  
 the Museo di Storia Naturale e del Territorio,  
 Università di Pisa, Calci (Pisa), Italy, catalogue  
 number 19640  
 How to cite: Biagioni, C. and Orlandi, P. (2012)  
 Oxycalcioroméite, IMA 2012-022. CNMNC  
 Newsletter No. 14, October 2012, page 1283;  
*Mineralogical Magazine*, **76**, 1281–1288.

**IMA No. 2012-023**

Kleberite  
 $\text{FeTi}_6\text{O}_{11}(\text{OH})_5$   
 Alluvial sands in regions of Saxony, close to

Roda (51°3'N 12°37'E) and Königshain (50°58'N  
 12°53'E), and from the Murray Basin, SE  
 Australia and Kalimantan, Indonesia  
 Ian E. Grey\* and Klaus Steinike  
 \*E-mail: ian.grey@csiro.au  
 Isostructural with tivanite and pseudorutile  
 Monoclinic:  $P2_1/c$ ; structure determined  
 $a = 7.5259(6)$ ,  $b = 4.5741(2)$ ,  $c = 9.854(1)$  Å,  
 $\beta = 130.784(6)^\circ$   
 3.933(8), 2.764(9), 2.466(27), 2.170(82),  
 1.676(100), 1.423(22), 1.297(6), 1.085(6)  
 Type specimens of Murray Basin and  
 Kalimantan kleberite are preserved in the  
 collections of Museum Victoria, Melbourne,  
 Victoria, Australia, registered numbers M52010  
 and M52011, respectively  
 How to cite: Grey, I.E. and Steinike, K. (2012)  
 Kleberite, IMA 2012-023. CNMNC Newsletter  
 No. 14, October 2012, page 1283;  
*Mineralogical Magazine*, **76**, 1281–1288.

**IMA No. 2012-024**

Trinepheline  
 $\text{NaAlSiO}_4$   
 Tawmaw, Hpakant-Tawmaw jade tract, Hpakant  
 Township, Mohnyin district, Kachin State,  
 Myanmar  
 G.C. Parodi, S. Pont, C. Ferraris\*, B. Rondeau  
 and J.P. Lorand  
 \*E-mail: ferraris@mnhn.fr  
 Known structure type; known synthetic phase  
 Hexagonal:  $P6_1, P6_5$   
 $a = 9.995(2)$ ,  $c = 24.797(4)$  Å  
 4.328(22), 4.133(49), 3.834(81), 3.272(40),  
 3.163(100), 2.989(21), 2.403(31), 2.401(22)  
 Type material is deposited in the collections of  
 the Muséum National d'Histoire naturelle  
 (MNHN), Paris, France, registration number  
 MNHN 212-001  
 How to cite: Parodi, G.C., Pont, S., Ferraris, C.,  
 Rondeau, B. and Lorand, J.P. (2012)  
 Trinepheline, IMA 2012-024. CNMNC  
 Newsletter No. 14, October 2012, page 1283;  
*Mineralogical Magazine*, **76**, 1281–1288.

**IMA No. 2012-025**

Omsite  
 $(\text{Ni,Cu})_2\text{Fe}^{3+}(\text{OH})_6[\text{Sb}(\text{OH})_6]$   
 Correc d'en Llinassos, near the village of Oms,  
 Pyrénées-Orientales Department, France  
 (42°32'60"N 02°42'0"E)

Stuart J. Mills\*, Anthony R. Kampf, Robert M. Housley, Georges Favreau, Marco Pasero, Cristian Biagioni, Stefano Merlino, Christian Berbain and Paolo Orlandi

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

Hydrotalcite supergroup

Trigonal:  $P\bar{3}$ ; structure determined

$a = 5.3506(8)$ ,  $c = 19.5802(15)$  Å

9.84(30), 4.901(100), 4.575(83), 3.781(34), 2.685(26), 2.354(81), 1.808(6), 1.476(24)

Two cotype specimens have been deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, California, USA, catalogue numbers 63428 and 63429, and one in the collections of Museum Victoria, Melbourne, Victoria, Australia, registration number M51584

How to cite: Mills, S.J., Kampf, A.R., Housley, R.M., Favreau, G., Pasero, M., Biagioni, C., Merlino, S., Berbain, C. and Orlandi, P. (2012) Omsite, IMA 2012-025. CNMNC Newsletter No. 14, October 2012, page 1283; *Mineralogical Magazine*, **76**, 1281–1288.

## NEW MINERAL PROPOSALS APPROVED IN JULY 2012

### IMA No. 2012-026

Darrellhenryite

$\text{NaLiAl}_2\text{Al}_6(\text{BO}_3)_3\text{Si}_6\text{O}_{18}(\text{OH})_3\text{O}$

Nová Ves, Český Krumlov, southern Bohemia, Czech Republic

Milan Novák\*, Andreas Ertl, Pavel Povondra, Michaela Vašinová Galiová, Helmut Pristacz, Markus Prem, Gerald Giester, Petr Gadas and Radek Škoda

\*E-mail: mnovak@sci.muni.cz

Tourmaline supergroup

Trigonal:  $R3m$ ; structure determined

$a = 15.823(1)$ ,  $c = 7.095(1)$  Å

3.952(54), 3.431(73), 2.925(100), 2.555(90), 2.326(42), 2.029(42), 2.021(42), 1.643(49)

The type specimen is deposited in the collections of the Department of Mineralogy and Petrography of the Moravian Museum, Brno, Czech Republic, catalogue number B10661

How to cite: Novák, M., Ertl, A., Povondra, P., Galiová, M.V., Pristacz, H., Prem, M., Giester, G., Gadas, P. and Škoda, R. (2012) Darrellhenryite, IMA 2012-026. CNMNC Newsletter No. 14, October 2012, page 1284; *Mineralogical Magazine*, **76**, 1281–1288.

### IMA No. 2012-027

Scottyite

$\text{BaCu}_2\text{Si}_2\text{O}_7$

Wessels mine, Kalahari Manganese Fields, Northern Cape Province, Republic of South Africa

Hexiong Yang\*, Robert T. Downs, Stanley H. Evans, William W. Pinch and Marcus J. Origlieri

\*E-mail: hyang@u.arizona.edu

New structure type

Orthorhombic:  $Pnma$ ; structure determined

$a = 6.8556(2)$ ,  $b = 13.1725(2)$ ,  $c = 6.8901(2)$  Å

6.586(52), 3.911(22), 3.078(17), 3.053(64), 3.041(100), 2.726(52), 2.430(37), 1.955(20)

Type material has been deposited in the collections of the Mineral Museum of the University of Arizona, Tucson, Arizona, USA, catalogue number 19334

How to cite: Yang, H., Downs, R.T., Evans, S.H., Pinch, W.W. and Origlieri, M.J. (2012) Scottyite, IMA 2012-027. CNMNC Newsletter No. 14, October 2012, page 1284; *Mineralogical Magazine*, **76**, 1281–1288.

### IMA No. 2012-028

Lavinskyite

$\text{K}(\text{LiCu})\text{Cu}_6(\text{Si}_4\text{O}_{11})_2(\text{OH})_4$

Wessels mine, Kalahari Manganese Fields, Northern Cape Province, Republic of South Africa

Hexiong Yang\*, Robert T. Downs, Stanley H. Evans, William W. Pinch and Marcus J. Origlieri

\*E-mail: hyang@u.arizona.edu

Isotypic with planchétite

Orthorhombic:  $Pcnb$ ; structure determined

$a = 19.046(3)$ ,  $b = 20.377(2)$ ,  $c = 5.2497(6)$  Å

10.189(100), 8.984(74), 4.921(25), 3.973(19), 3.343(32), 2.693(29), 2.522(27), 2.316(22)

Type material has been deposited in the collections of the Mineral Museum of the University of Arizona, Tucson, Arizona, USA, catalogue number 19335

How to cite: Yang, H., Downs, R.T., Evans, S.H., Pinch, W.W. and Origlieri, M.J. (2012) Lavinskyite, IMA 2012-028. CNMNC Newsletter No. 14, October 2012, page 1284; *Mineralogical Magazine*, **76**, 1281–1288.

### IMA No. 2012-029

Manganoblödite

$\text{Na}_2\text{Mn}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$

Blue Lizard mine, Red Canyon, White Canyon

District, San Juan County, Utah, USA

Fabrizio Nestola\*, Anatoly V. Kasatkin, Jakub Plášil, Joe Marty, Dmitriy I. Belakovskiy, Atali A. Agakhanov, Danilo Pedron and Stuart J. Mills

\*E-mail: [fabrizio.nestola@unipd.it](mailto:fabrizio.nestola@unipd.it)

The Mn analogue of blöditite

Monoclinic:  $P2_1/a$ ; structure determined

$a = 11.137(2)$ ,  $b = 8.279(1)$ ,  $c = 5.5381(9)$  Å,  
 $\beta = 100.42(1)^\circ$

4.556(70), 4.266(45), 3.791(26), 3.338(21),  
3.291(100), 3.256(67), 2.968(22), 2.647(24)

Type material has been deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4257/1

How to cite: Nestola, F., Kasatkin, A.V., Plášil, J., Marty, J., Belakovskiy, D.I., Agakhanov, A.A., Pedron D. and Mills, S.J. (2012) Manganoblöditite, IMA 2012-029. CNMNC Newsletter No. 14, October 2012, page 1284; *Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-030

Whitecapsite

$H_{16}Fe_5^{2+}Fe_{14}^{3+}Sb_6^{3+}(AsO_4)_{18}O_{16} \cdot 120H_2O$

East ore body, White Caps mine, Manhattan district, Nye County, Nevada, USA

Igor V. Pekov\*, Natalia V. Zubkova, Jörg Göttlicher, Vasilij O. Yapaskurt, Nikita V. Chukanov, Inna S. Lykova, Dmitriy I. Belakovskiy, Martin C. Jensen, Joseph F. Leising, Anthony J. Nikischer and Dmitry Y. Pushcharovsky

\*E-mail: [igorpekov@mail.ru](mailto:igorpekov@mail.ru)

New structure type

Hexagonal:  $P6_3/m$ ; structure determined

$a = 16.0916(8)$ ,  $c = 21.7127(9)$  Å  
13.99(34), 11.73(100), 5.267(6), 3.644(4),  
2.999(8), 2.757(4), 2.648(5)

Type material has been deposited in the collections of the Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia, registration number 4239/1

How to cite: Pekov, I.V., Zubkova, N.V., Göttlicher, J., Yapaskurt, V.O., Chukanov, N.V., Lykova, I.S., Belakovskiy, D.I., Jensen, M.C., Leising, J.F., Nikischer, A.J. and Pushcharovsky, D.Y. (2012) Whitecapsite, IMA 2012-030. CNMNC Newsletter No. 14, October 2012, page 1285; *Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-031

Calciodelrioite

$Ca(VO_3)_2 \cdot 4H_2O$

West Sunday mine, Slick Rock district, San Miguel County, Colorado, USA

Anthony R. Kampf\*, Joe Marty, Barbara Nash, Jakub Plášil, Anatoly V. Kasatkin and Radek Škoda

\*E-mail: [akampf@nhm.org](mailto:akampf@nhm.org)

Ca-dominant analogue of delrioite

Monoclinic:  $I2/a$ ; structure determined

$a = 14.6389(10)$ ,  $b = 6.9591(4)$ ,  $c = 17.052(2)$  Å,  
 $\beta = 102.568(9)^\circ$

7.18(14), 6.450(100), 4.350(16), 3.489(18),  
3.215(17), 3.027(50), 2.560(28), 1.786(18)

Type material has been deposited in the collections of the Natural History Museum of Los Angeles County, Los Angeles, CA 90007, USA, catalogue numbers 63837, 63838 and 63839

How to cite: Kampf, A.R., Marty, J., Nash, B., Plášil, J., Kasatkin, A.V. and Škoda, R. (2012) Calciodelrioite, IMA 2012-031. CNMNC Newsletter No. 14, October 2012, page 1285; *Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-004a

Oxy-dravite

$Na(Al_2Mg)(Al_5Mg)(Si_6O_{18})(BO_3)_3(OH)_3O$

Osarara, Narok district, Kenya

Ferdinando Bosi\* and Henrik Skogby

\*E-mail: [ferdinando.bosi@uniroma1.it](mailto:ferdinando.bosi@uniroma1.it)

Tourmaline supergroup

Trigonal:  $R3m$ ; structure determined

$a = 15.9273(2)$ ,  $c = 7.2001(1)$  Å  
6.377(44), 4.222(67), 3.983(64), 3.483(84),  
2.963(100), 2.576(68), 2.041(35), 1.915(52)

Type material has been deposited in the collections of the Museum of Mineralogy, Earth Sciences Department, Sapienza University of Rome, Rome, Italy, catalogue number 33066

How to cite: Bosi, F. and Skogby, H. (2012) Oxy-dravite, IMA 2012-004a. CNMNC Newsletter No. 14, October 2012, page 1285; *Mineralogical Magazine*, **76**, 1281–1288.

### NEW MINERAL PROPOSALS APPROVED IN AUGUST 2012

#### IMA No. 2012-032

Strontiohurlbutite

$SrBe_2(PO_4)_2$

Nanping No. 31 pegmatite, Fujian Province, China (118°06'E 26°40'N)

Rao Can\*, Wang Rucheng, Gu Xiangping, Hu Huan and Dong Chuanwan

\*E-mail: canrao@zju.edu.cn

Sr-dominant analogue of hurlbutite

Monoclinic:  $P2_1/a$ ;

$a = 8.426(5)$ ,  $b = 8.998(5)$ ,  $c = 8.005(4)$  Å,

$\beta = 90.05(5)^\circ$

3.554(100), 3.355(51), 3.073(38), 2.542(67), 2.230(42), 2.215(87), 2.046(54), 1.714(32)

Type material has been deposited in the collections of the Geological Museum of China, Yangrou Hutong, Xisi, Beijing, People's Republic of China, catalogue number M11803

How to cite: Rao, C., Wang, R., Gu, X., Hu, H. and Dong, C. (2012) Strontiohurlbutite, IMA 2012-032. CNMNC Newsletter No. 14, October 2012, page 1285; *Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-033

Carlfrancisite

$\text{Mn}_3^{2+}(\text{Mn}^{2+}, \text{Mg}, \text{Fe}^{3+}, \text{Al})_{42}[\text{As}^{3+}\text{O}_3]_2(\text{As}^{5+}\text{O}_4)_4$   
 $[(\text{Si}, \text{As}^{5+})\text{O}_4]_6[(\text{As}^{5+}, \text{Si})\text{O}_4]_2(\text{OH})_{42}$

E15-11 south stope, 11 level, Asia West sector of the Kombat mine, Otavi Valley, Namibia

Frank C. Hawthorne\* and William W. Pinch

\*E-mail: frank\_hawthorne@umanitoba.ca

Closely related to mcgovernite and turtmannite

Trigonal:  $R\bar{3}c$ ; structure determined

$a = 8.2238(2)$ ,  $c = 205.113(6)$  Å

4.107(48), 3.243(54), 3.051(43), 2.918(47), 2.826(100), 2.676(63), 2.371(88), 1.552(84)

Type material has been deposited in the collections of the Department of Natural History, Royal Ontario Museum, Toronto, Ontario, Canada, catalogue number M56375

How to cite: Hawthorne, F.C. and Pinch, W.W. (2012) Carlfrancisite, IMA 2012-033. CNMNC Newsletter No. 14, October 2012, page 1286; *Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-034

Vanadio-oxy-chromium-dravite

$\text{NaV}_3(\text{Cr}_4\text{Mg}_2)(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$

Pereval marble quarry, Sludyanka, Irkutsk region, Siberia, Russia (51°37'N 103°38'E)

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

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

Tourmaline supergroup

Trigonal:  $R3m$ ; structure determined

$a = 16.1260(2)$ ,  $c = 7.3759(1)$  Å

6.509(100), 4.293(31), 4.022(40), 3.564(53), 3.022(47), 2.611(42), 2.171(42), 2.075(40)

Type material has been deposited in the collections of the Museum of Mineralogy, Earth Sciences Department, Sapienza University of Rome, Rome, Italy, catalogue number 33067

How to cite: Bosi, F., Reznitskii, L., Skogby, H. and Hålenius, U. (2012) Vanadio-oxy-chromium-dravite, IMA 2012-034. CNMNC Newsletter No. 14, October 2012, page 1286; *Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-035

Minohlite

$(\text{Cu}, \text{Zn})_7(\text{SO}_4)_2(\text{OH})_{10} \cdot 8\text{H}_2\text{O}$

Hirao mine, Onsen-machi, Minoh City, Osaka Prefecture, Japan (34°50'N 135°28'E)

Masayuki Ohnishi\*, Norimasa Shimobayashi, Daisuke Nishio-Hamane, Keiji Shinoda, Koichi Momma and Takuji Ikeda

\*E-mail: czshh118a@yahoo.co.jp

Chemically related to schulenbergite

Hexagonal (trigonal):  $P6$ ,  $P\bar{6}$ ,  $P6/m$ ,  $P622$ ,  $P6mm$ ,  $P\bar{6}2m$  or  $P6/mmm$  ( $P3$ ,  $P\bar{3}$ ,  $P321$ ,  $P3m1$ ,  $P\bar{3}m1$ ,  $P312$ ,  $P31m$  or  $P\bar{3}1m$ )

$a = 8.2535(11)$ ,  $c = 8.1352(17)$  Å

8.138(20), 4.128(24), 2.702(100), 2.564(76), 1.560(43), 1.532(24), 1.351(12), 1.333(11)

Type material has been deposited in the collections of the National Museum of Nature and Science, Japan, catalogue numbers NSM-M43670 and NSM-M43671, and the Kyoto University Museum, Japan, catalogue number KUM-M00001

How to cite: Ohnishi, M., Shimobayashi, N., Nishio-Hamane, D., Shinoda, K., Momma, K. and Ikeda, T. (2012) Minohlite, IMA 2012-035. CNMNC Newsletter No. 14, October 2012, page 1286; *Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-036

Fluorcalciomicrolite

$(\text{Ca}, \text{Na})_2\text{Ta}_2(\text{O}, \text{OH})_6\text{F}$

Volta Grande pegmatite, Nazareno, Minas Gerais, Brazil

Marcelo B. Andrade, Daniel Atencio\*, Hexiong Yang, Robert T. Downs, Aba I.C. Persiano and Javier Ellena

\*E-mail: datencio@usp.br

Pyrochlore supergroup

Cubic:  $Fd\bar{3}m$ ; structure determined  
 $a = 10.4191(6) \text{ \AA}$   
 5.997(59), 3.138(83), 3.005(100), 2.602(29),  
 2.004(23), 1.841(23), 1.589(25), 1.504(24)  
 Type material has been deposited in the  
 collections of the Museu de Geociências,  
 Instituto de Geociências, Universidade de São  
 Paulo, São Paulo, Brazil, registration number  
 DR731

How to cite: Andrade, M.B., Atencio, D., Yang,  
 H., Downs, R.T., Persiano, A.I.C. and Ellena, J.  
 (2012) Fluorcalciomicrolite, IMA 2012-036.  
 CNMNC Newsletter No. 14, October 2012,  
 page 1286; *Mineralogical Magazine*, **76**,  
 1281–1288.

#### IMA No. 2012-037

Cadmoxite  
 CdO  
 Lengenbach quarry, Binntal, Ct. Valais,  
 Switzerland  
 Stefan Graeser\*, Francesco Demartin and  
 Walter Gabriel  
 \*E-mail: stefan.graeser@unibas.ch  
 Dimorph of monteponite  
 Cubic:  $F\bar{4}3m$ ; structure determined  
 $a = 5.4830(6) \text{ \AA}$   
 3.162(100), 2.738(20), 1.941(30), 1.657(50),  
 1.259(40), 1.228(30), 1.121(40), 1.055(30)  
 The holotype material is deposited in the  
 mineralogical collections of the Natural  
 History Museum, Basel, Switzerland, catalogue  
 number S203  
 How to cite: Graeser, S., Demartin, F. and  
 Gabriel, W. (2012) Cadmoxite, IMA 2012-037.  
 CNMNC Newsletter No. 14, October 2012, page  
 1287; *Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-042

Voudourisite  
 $\text{CdSO}_4 \cdot \text{H}_2\text{O}$   
 Esperanza Mine, Lavrion, Attikí Prefecture,  
 Greece  
 Branko Rieck\* and Gerald Giester  
 \*E-mail: branko@mineralogie.at  
 Kieserite group  
 Monoclinic:  $P2_1/n$ ; structure determined  
 $a = 7.633(1)$ ,  $b = 7.458(1)$ ,  $c = 7.623(1) \text{ \AA}$ ,  
 $\beta = 115.41(1)^\circ$   
 4.881(65), 3.729(26), 3.574(100), 3.279(14),  
 3.226(44), 2.531(32), 2.319(16)  
 Type material is deposited in the collections of

the Institut für Mineralogie und  
 Kristallographie, University of Vienna, Vienna,  
 Austria, catalogue number HS13.077  
 How to cite: Rieck, B. and Giester, G. (2012)  
 Voudourisite, IMA 2012-042. CNMNC  
 Newsletter No. 14, October 2012, page 1287;  
*Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-043

Lazaridisite  
 $3\text{CdSO}_4 \cdot 8\text{H}_2\text{O}$   
 Esperanza Mine, Lavrion, Attikí Prefecture,  
 Greece  
 Branko Rieck\* and Gerald Giester  
 \*E-mail: branko@mineralogie.at  
 New structure type  
 Monoclinic:  $C2/c$ ; structure determined  
 $a = 14.813(3)$ ,  $b = 11.902(2)$ ,  $c = 9.466(2) \text{ \AA}$ ,  
 $\beta = 97.38(3)^\circ$   
 6.874(100), 6.338(69), 5.953(75), 4.529(57),  
 3.745(73), 3.092(75), 3.003(51), 2.895(42)  
 Type material is deposited in the collections of  
 the Institut für Mineralogie und  
 Kristallographie, University of Vienna, Vienna,  
 Austria, catalogue number HS13.077  
 How to cite: Rieck, B. and Giester, G. (2012)  
 Lazaridisite, IMA 2012-043. CNMNC  
 Newsletter No. 14, October 2012, page 1287;  
*Mineralogical Magazine*, **76**, 1281–1288.

#### IMA No. 2012-044

Fluor-tsilaisite  
 $\text{NaMn}_3^{2+}\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{F}$   
 Grotta d'Oggi, San Piero in Campo, Elba, Italy  
 Ferdinando Bosi\*, Giovanni B. Andreozzi,  
 Giovanna Agros and Eugenio Scandale  
 \*E-mail: ferdinando.bosi@uniroma1.it  
 Tourmaline supergroup  
 Trigonal:  $R3m$ ; structure determined  
 $a = 15.9398(6)$ ,  $c = 7.1363(3) \text{ \AA}$   
 6.339(34), 4.212(57), 3.985(74), 3.455(58),  
 2.945(57), 2.575(100), 2.036(36), 1.915(29)  
 Type material is deposited in the collections of  
 the Museo di Scienze della Terra, settore  
 Mineralogico Petrografico “Carlo Lorenzo  
 Garavelli”, Campus Universitario, Bari, Italy,  
 catalogue number NM16  
 How to cite: Bosi, F., Andreozzi, G.B., Agros,  
 G. and Scandale, E. (2012) Fluor-tsilaisite, IMA  
 2012-044. CNMNC Newsletter No. 14, October  
 2012, page 1287; *Mineralogical Magazine*, **76**,  
 1281–1288.

**NOMENCLATURE PROPOSAL APPROVED  
IN JUNE 2012**

IMA 11-G: Plumbonacrite is revalidated. Its chemical composition is  $\text{Pb}_5\text{O}(\text{OH})_2(\text{CO}_3)_3$ , and the neotype locality is the Torr Works (Merehead) Quarry, East Cranmore, Somerset, United Kingdom.

**NOMENCLATURE PROPOSALS APPROVED  
IN AUGUST 2012**

IMA 12-A: Phosphovanadylite is renamed phosphovanadylite-Ba.

IMA 12-B: HYDROTALCITE SUPERGROUP: A report on the nomenclature of the hydrotalcite supergroup has been approved. The chemical formulae and status of minerals of the hydrotalcite supergroup, which presently includes 43 minerals, divided into 8 groups, have been revised. Four minerals (barbertonite, cyanophyllite, manasseite and sjögrenite) have been discredited.

**OTHER NOMENCLATURE MATTERS**

A report, *Clarification of status of species in the pyrochlore supergroup*, by Andrew G. Christy and Daniel Atencio, will be published in *Mineralogical Magazine* in the near future, and made available on the CNMNC web site.