

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

## NEWSLETTER 3

### New minerals and nomenclature modifications approved in 2010

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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

**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

#### Proposals approved in May 2010

IMA No. 2010-005

$\text{Fe}_4(\text{SO}_4)\text{O}_2(\text{OH})_6 \cdot 2\text{H}_2\text{O}$

Cava del Ferro-Trimpello, Fornovolasco, Vergemoli, Apuan Alps, Tuscany, Italy

Cristian Biagioni\*, Elena Bonaccorsi and Paolo Orlandi

E-mail: biagioni@dst.unipi.it

New structure type; known synthetic phase

Monoclinic:  $C2/m$ ; structure determined  
 $a = 16.085(2)$ ,  $b = 3.054(1)$ ,  $c = 10.929(2)$  Å,  
 $\beta = 93.78(1)^\circ$

8.03(s), 4.37(m), 3.989(m), 3.343(mw), 2.633(mw)

Type material is deposited in the Museo di Storia Naturale e del Territorio, University of Pisa, Via Roma 79, Calci (PI), Italy, catalogue number 19300

How to cite: Biagioni, C., Bonaccorsi, E. and Orlandi, P. (2010) IMA 2010-005. CNMNC Newsletter, June 2010, page 577; *Mineralogical Magazine*, **74**, 577–579.

## IMA No. 2010-006

Hermannroseite

CaCu(PO<sub>4</sub>)(OH)

Tsumeb mine, Tsumeb, Namibia

Jochen Schlüter\* and Dieter Pohl

\*E-mail: Jochen.Schlueter@uni-hamburg.de

Phosphate analogue of conicalcrite

Orthorhombic:  $P2_12_12_1$ ; structure determined $a = 7.328(7)$ ,  $b = 5.769(6)$ ,  $c = 9.123(7)$  Å

5.710(56), 4.057(37), 3.663(21), 3.092(63),

2.854(29), 2.808(100), 2.571(73), 2.525(36)

Type material is deposited in the Mineralogical Museum of the University of Hamburg, Hamburg, specimen number TS 637

How to cite: Schlüter, J. and Pohl, D. (2010)

Hermannroseite, IMA 2010-006. CNMNC

Newsletter, June 2010, page 578;

*Mineralogical Magazine*, **74**, 577–579.

## IMA No. 2010-008

Cuprokalininite

CuCr<sub>2</sub>S<sub>4</sub>

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

L.Z. Reznitsky, E.V. Sklyarov, Z.F.

Ushchapovskaya, L.F. Suvorova, Yu.S.

Polekhovskiy, P. Dzierżanowski and Igor G. Barash\*

\*E-mail: garry@crust.irk.ru

Thiospinel

Cubic:  $Fd\bar{3}m$ ; known structure type $a = 9.814(2)$  Å

3.44(6), 2.94(10), 2.44(6), 1.884(9), 1.731(10),

1.133(6), 1.098(6), 1.030(6), 1.002(10)

Type material is deposited in the Fersman Mineralogical Museum of the Russian Academy of Sciences, specimen number 3886/1-3

How to cite: Reznitsky, L.Z., Sklyarov, E.V.,

Ushchapovskaya, Z.F., Suvorova, L.F.,

Polekhovskiy, Yu.S., Dzierżanowski, P. and

Barash, I.G. (2010) Cuprokalininite, IMA

2010-008. CNMNC Newsletter, June 2010,

page 578; *Mineralogical Magazine*, **74**,

577–579.

## IMA No. 2010-009

Natropharmacoalumite

NaAl<sub>4</sub>(AsO<sub>4</sub>)<sub>3</sub>(OH)<sub>4</sub>·4H<sub>2</sub>O

Maria Josefa mine, near Rodalquilar, Andalusia region, Spain (36°51'30N 2°5'2W)

Mike S. Rumsey\*, Stuart J. Mills and John Spratt

\*E-mail: m.rumsey@nhm.ac.uk

Pharmacosiderite group

Cubic:  $P\bar{4}3m$ ; structure determined $a = 7.7280(3)$  Å

7.759(100), 4.473(40), 3.870(50), 3.459(6),

3.158(6), 2.736(6), 2.446(9), 2.331(12)

Type material is deposited in the Natural History Museum in London, specimen number

BM 2009,161

How to cite: Rumsey, M.S., Mills, S.J. and

Spratt, J. (2010) Natropharmacoalumite, IMA

2010-009. CNMNC Newsletter, June 2010, page

578; *Mineralogical Magazine*, **74**, 577–579.**NOMENCLATURE PROPOSAL APPROVED IN MAY 2010***Nomenclature of the pyrochlore supergroup minerals*

Re-examination and redefinition of pyrochlore end-members and potential new end-members and species has been undertaken, including a classification guide for naming future species.

**Proposals approved in June 2010**

## IMA No. 2010-007

Greenwoodite

(Ba,V<sup>3+</sup>O)<sub>2</sub>V<sub>3</sub><sup>3+</sup>(Fe<sup>3+</sup>,Fe<sup>2+</sup>)<sub>2</sub>Si<sub>2</sub>O<sub>22</sub>

Wigwam deposit, Akolkolex River area British Columbia, Canada (50°52'48"N 117°58'04"W)

Paul R. Bartholomew\*, Franco Mancini, George

E. Harlow, Christopher Cahill, Nicholas Deifel

and Heinz-Jrgen Bernhardt

\*E-mail: pbartholomew@newhaven.edu

New structure type

Trigonal:  $P\bar{3}m1$ ; structure determined $a = 5.7500(6)$ ,  $c = 14.4590(9)$  Å

2.925(100), 2.875(38), 2.672(23), 2.469(35),

2.354(28), 2.212(28), 1.669(26), 1.438(35)

Type material is deposited in the American Museum of Natural History, New York, catalogue number 109839

How to cite: Bartholomew, P.R., Mancini, F.,

Harlow, G.E., Cahill, C., Deifel, N. and

Bernhardt, H.-Z. (2010) Greenwoodite, IMA

2010-007. CNMNC Newsletter, June 2010, page

578; *Mineralogical Magazine*, **74**, 577–579.

## IMA No. 2010-010

Naquite

FeSi

Orebody 31, Luobusa mining district, Qusong County, Tibet (29°5'N 92°5'E)

Shi Ni-cheng\*, Li Guo-wu, Bai Wen-ji, Xiong

Ming, Yang Jing-su, Fang Qing-son, Ma

Zhe-sheng and Rong He

\*E-mail: shinicheng@vip.sina.com

Known structure type

Cubic:  $P2_13$

$a = 4.486(4) \text{ \AA}$

3.174(43), 2.592(46), 2.249(25), 2.008(100),  
1.831(69), 1.353(28), 1.199(38)

Type material is deposited in the Institute of Geology, Chinese Academy of Geological Sciences, Beijing, People's Republic of China, catalogue number 97-8-2

How to cite: Shi, N.-C., Li, G.-W., Bai, W.-J., Xiong, M., Yang, J.-S., Fang, Q.-S., Ma, Z.-S. and Rong, H. (2010) Naquite, IMA 2010-010. CNMNC Newsletter, June 2010, page 579; *Mineralogical Magazine*, **74**, 577–579.

#### IMA No. 2010-011

Linzhiite

$\text{FeSi}_2$

Orebody 31, Luobusa mining district, Qusong County, Tibet (29°5'N 92°5'E)

Li Guo-wu\*, Shi Ni-cheng, Bai Wen-ji, Xiong Ming, Fang Qing-son and Ma Zhe-sheng

\*E-mail: liguowu@126.com

Known synthetic compound

Tetragonal:  $P4/mmm$ ; structure determined

$a = 2.725(3)$ ,  $c = 5.202(10) \text{ \AA}$

5.150(95), 2.373(66), 1.895(61), 1.848(100),  
1.776(11), 1.704(13), 1.340(15), 1.086(19)

Type material is deposited in the Institute of Geology, Chinese Academy of Geological Sciences, Beijing, People's Republic of China, catalogue number 97-6

How to cite: Li, G.-W., Shi, N.-C., Bai, W.-J., Xiong, M., Fang, Q.-S. and Ma, Z.-S. (2010) Linzhiite, IMA 2010-011. CNMNC Newsletter, June 2010, page 579; *Mineralogical Magazine*, **74**, 577–579.

#### IMA No. 2010-012

Coralloite

$\text{Mn}^{2+}\text{Mn}_2^{3+}(\text{AsO}_4)_2(\text{OH})_2 \cdot 4\text{H}_2\text{O}$

Monte Nero mine, Rocchetta Vara, La Spezia,

Liguria, Italy

Athos Maria Callegari\*, Massimo Boiocchi, Marco E. Ciriotti and Corrado Balestra

\*E-mail: athosmaria.callegari@unipv.it

Related to arthurite and whitmoreite

Triclinic:  $P1$

$a = 5.5828(7)$ ,  $b = 9.7660(13)$ ,  $c = 5.5455(7) \text{ \AA}$ ,  
 $\alpha = 94.467(3)$ ,  $\beta = 111.348(2)$ ,  $\gamma = 93.85(2)^\circ$   
9.710(100), 5.166(77), 5.136(80), 3.342(65),  
3.324(34), 2.873(22), 2.631(23), 2.565(22)

Type material is deposited in the Mineralogical Museum of the University of Pavia, catalogue number 2010/001

How to cite: Callegari, A.M., Boiocchi, M., Ciriotti, M.E. and Balestra, C. (2010) Coralloite, IMA 2010-012. CNMNC Newsletter, June 2010, page 579; *Mineralogical Magazine*, **74**, 577–579.

#### IMA No. 2010-014

Hydroniumpharmacosiderite

$(\text{H}_3\text{O})\text{Fe}_4(\text{AsO}_4)_3(\text{OH})_4 \cdot 4\text{H}_2\text{O}$

Cornwall, United Kingdom, probably from a mine in the St Day mines, Wheal Gorland group

Stuart J. Mills\*, Anthony R. Kampf, Peter A. Williams, Peter Leverett, Glenn Poirier, Mati Raudsepp and Carl A. Francis

\*E-mail: smills@eos.ubc.ca

Pharmacosiderite group

Cubic:  $P\bar{4}3m$ ; structure determined

$a = 7.9587(2) \text{ \AA}$

8.050(100), 4.628(22), 4.005(14), 3.265(35),  
2.830(23), 2.528(19), 2.412(30), 1.787(14)

Type material is deposited in the Harvard Mineralogical Museum, catalogue number 142784

How to cite: Mills, S.J., Kampf, A.R., Williams, P.A., Leverett, P., Poirier, G., Raudsepp, M. and Francis, C.A. (2010) Hydroniumpharmacosiderite, IMA 2010-014. CNMNC Newsletter, June 2010, page 579; *Mineralogical Magazine*, **74**, 577–579.