

NEW MINERALS APPROVED IN 2007
NOMENCLATURE MODIFICATIONS APPROVED IN 2007
BY THE
COMMISSION ON NEW MINERALS, NOMENCLATURE AND CLASSIFICATION
INTERNATIONAL MINERALOGICAL ASSOCIATION

Ernst A.J. Burke* (Chairman, CNMNC) & Frédéric Hatert*** (Vice-Chairman, CNMNC)

*Faculteit der Aard- en Levenswetenschappen, Vrije Universiteit Amsterdam,
De Boelelaan 1085, 1081 HV Amsterdam, Netherlands — ernst.burke@fsw.vu.nl

**Laboratoire de Minéralogie, Université de Liège, B-4000 Liège, Belgium —
fhatert@ulg.ac.be

The information given here is provided by the Commission on New Minerals and Mineral Names, I.M.A., for comparative purposes and as a service to mineralogists working on new species.

Each mineral is described in the following format:

IMA number
Type locality
Corresponding author
Chemical formula
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

The names of these approved species are considered confidential information until the authors have published their descriptions or released information themselves.

NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION

2007 PROPOSALS

IMA No. 2007-001

A quarry, 10 km SSW of the township of Lake Boga, north-western Victoria, Australia
Stuart J. Mills

CaNaFe₂H(UO₂)₂(PO₄)₄(OH)₂(H₂O)₈

Uranyl phosphate

Monoclinic: *Cc*; structure determined

a 19.6441, *b* 7.0958, *c* 18.7029 Å, β 115.692°

6.60(10), 4.07(2), 3.80(2), 3.56(2), 3.31(2), 3.16(4), 2.797(2), 2.002(2)

IMA No. 2007-002

Dovyren massif, Siberia, Russia

Evgeny V. Galuskin

Ca₆ZrSi₄O₁₄(OH)₄

New structure

Orthorhombic: *Pnnm*; structure determined

A 5.666, *B* 18.844, *C* 3.728 Å

5.4260(63), 3.1406(39), 3.0727(100), 2.7468(36), 2.5979(25), 1.8786(26), 1.8640(33),
1.6848(26)

IMA No. 2007-003

Chende Region, China

Zuxiang Yu

CuPtBiS₃

Lapieite group

Orthorhombic: *P*2₁2₁2₁; structure determined

a 7.7152, *b* 12.838, *c* 4.9248 Å

6.40(30), 5.93(20), 3.24(80), 3.03(100), 2.27(40), 2.14(50), 1.865(60), 1.423(30)

IMA No. 2007-004

Grandview mine, Grand Canyon National Park, Coconino County, Arizona, USA

Peter A. Williams

Cu₃Al₉(SO₄)₂(OH)₂₉

Monoclinic: *P*2, *Pm* or *P2/m*

a 10.908, *b* 6.393, *c* 10.118 Å, β 107.47°

9.667(33), 6.208(100), 5.287(35), 3.949(79), 3.625(10), 2.990(9), 2.816(14), 2.413(9)

IMA No. 2007-005

Vanadium Queen mine, 18 km east of La Sal, San Juan County, Utah, USA

John M. Hughes

Na₂Mg₂(V₁₀O₂₈)·20H₂O

Pascoite-sherwoordite group

Monoclinic: *C*2/*c*; structure determined

a 23.9019, *b* 10.9993, *c* 17.0504 Å, β 118.284°

9.72(100), 9.09(60), 8.19(60), 7.42(70), 6.67(80), 2.882(50), 2.706(50), 1.861(50)

IMA No. 2007-006

San Piero in Campo, Elba, Italy

Rainer Thomas

Rb[B₅O₆(OH)₄]·2H₂O

Neso-pentaborate

Orthorhombic: *Aba*2

a 11.304, *b* 10.963, *c* 9.337 Å

3.554(100), 5.481(85), 3.391(63), 2.826(47), 6.018(38), 3.329(38), 2.894(28), 3.259(26)

IMA No. 2007-007

San Piero in Campo, Elba, Italy

Rainer Thomas

Cs[B₅O₆(OH)₄]·2H₂O

Neso-pentaborate

Monoclinic: *C*2/*c*

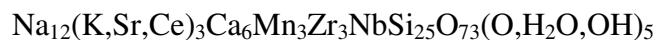
a 8.130, *b* 12.045, *c* 11.792 Å, β 93.34°

6.023(100), 3/365(68), 2.943(55), 3.278(49), 3.467(44), 3.464(44), 5.886(43), 3.321(34)

IMA No. 2007-008

Koashva apatite quarry, Khibina alkaline massif, Kola Peninsula, Russia

Alexander P. Khomyakov



Eudialyte group

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

a 14.281, c 30.243 Å

6.447(60), 5.719(40), 4.322(71), 3.540(38), 3.222(70), 3.170(50), 2.982(100), 2.860(94)

IMA No. 2007-009

Monte Trisa, Torrebelvicino, Vicenza, Italy

Paolo Orlandi



Dimorphous with redgillite

Orthorhombic: $Cmc2_1$; structure determined

a 2.989, b 16.970, c 14.812 Å

7.45(100), 3.73(35), 2.788(18), 2.654(8), 2.503(14), 2.341(9), 2.166(9), 1.598(20)

IMA No. 2007-010

Zarshuran deposit, Takab region, NW Iran

Werner H. Paar



Sulphosalt

Monoclinic: P lattice

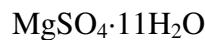
a 19.113, b 4.233, c 22.958 Å, β 114.78°

8.672(80), 5.680(30), 4.653(50), 3.867(40), 3.395(50), 3.148(40), 2.722(100), 2.187(50)

IMA No. 2007-011

Venables Valley, 20 km SSW of Ashcroft, British Columbia, Canada

Ronald C. Peterson and Elif Genceli



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

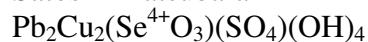
a 6.7459, b 6.8173, c 17.2799 Å, α 88.137, β 89.481, γ 62.719°

5.73(35), 5.62(56), 5.41(54), 4.91(84), 4.85(90), 2.988(58), 2.958(100), 2.940(67)

IMA No. 2007-012

Kato mine, Munakata City, Fukuoka Prefecture, Japan

Satoshi Matsubara



Linarite-chenite group

Monoclinic: $P2_1/m$

a 9.766, b 5.666, c 9.291(10) Å, β 102.40°

4.86(44), 4.47(57), 3.53(39), 3.18(100), 3.14(68), 2.72(22), 2.33(18), 1.813(19)

IMA No. 2007-013

Mina Santa Rosa, Iquique, Northern Chile

Jochen Schlüter



Natural analogue of copper metaborate

Tetragonal: $I\bar{4}2d$; structure determined

a 11.517, c 5.632 Å

3.797(100), 3.638(47), 2.876(17), 2.775(35), 2.572(26), 2.501(26), 1.822(21), 1.793(20)

IMA No. 2007-014

Verkhn'echegemskiy volcanic structure, Kabardino-Balkaria, North Caucasus, Russia

Evgeny V. Galuskin



Perovskite group

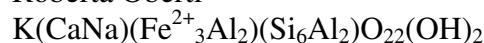
Orthorhombic: *Pnma*; structure determined a 5.65, b 7.93, c 5.55 Å

4.013(35), 4.009(16), 2.881(25), 2.836(100), 2.796(22), 2.006(29), 1.654(17), 1.622(24)

IMA No. 2007-015

Sierra de los Filabres, Almería, SE Spain

Roberta Oberti



Amphibole group

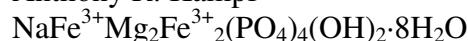
Monoclinic: *C2/m*; structure determined a 9.8505, b 18.0075, c 5.3518 Å, β 104.775°

8.420(100), 3.400(38), 3.127(53), 2.714(75), 2.596(49), 2.565(60), 2.340(32), 2.166(34)

IMA No. 2007-016

Tip Top mine, Custer County, South Dakota, USA

Anthony R. Kampf



Whiteite-jahnsite group

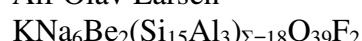
Monoclinic: *P2/a* a 15.0811, b 7.1403, c 9.8299 Å, β 110.445°

9.218(100), 4.884(25), 3.537(25), 2.973(25), 2.854(20), 2.819(70), 2.593(25), 1933(20)

IMA No. 2007-017

Vesle Arøy island, Langesundsfjord district, Larvik community, Vestfold county, Norway

Alf Olav Larsen



Leifite group

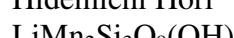
Trigonal: *P*3̄*m*1; structure determined a 14.3865, c 4.8733 Å

4.710(29), 4.153(21), 3.386(70), 3.161(100), 3.115(17), 2.466(31), 2.398(19), 2.217(20)

IMA No. 2007-019

Matsumaezawa pit, Tanohata mine, Tanohata Village, Iwate Prefecture, Japan

Hidemichi Hori



Wollastonite group

Triclinic: *P*1̄ a 7.612, b 7.038, c 6.700 Å, α 90.23, β 94.70, γ 105.26°

6.640(35), 3.666(26), 3.134(89), 3.109(69), 2.946(100), 2.814(33), 2.581(22), 2.182(40)

IMA No. 2007-020

Bambolla mine, Moctezuma, Sonora, Mexico

Joël Brugger



Tellurate

Monoclinic: $P2$, $P2/m$, Pm , $P2_1$ or $P2_1/m$
 a 10.757, b 4.928, c 8.492 Å, β 102.39°
4.924(34), 4.361(51), 3.267(100), 2.520(71), 2.244(32), 1.996(21), 1.762(39), 1.455(24)

IMA No. 2007-021

Mount Stafford, Northern Territory, Australia

Edward S. Grew



Structurally related to mullite

Orthorhombic: $Cmc2_1$; structure determined

a 5.7168, b 15.023, c 7.675 Å

5.37(50), 3.38(100), 2.67(60), 2.51(60), 2.19(80), 2.11(50), 1.682(30), 1.512(80)

IMA No. 2007-022

La Fossa crater, Vulcano, Aeolian Islands, Italy

Francesco Demartin



New structure type

Orthorhombic: $Pnam$; structure determined

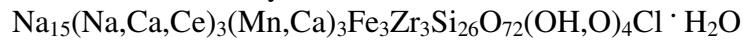
a 8.0424, b 9.8511, c 4.0328 Å

4.220(68), 3.740(62), 3.721(44), 2.909(100), 2.429(43), 2.036(47), 1.865(63), 1.774(88)

IMA No. 2007-023

Mt. Alluaiv, Lovozero alkaline massif, Kola Peninsula, Russia

Alexander P. Khomyakov



Eudialyte group

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

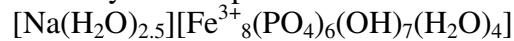
a 14.205, c 30.265 Å

4.316(85), 3.536(41), 3.221(43), 3.166(37), 3.039(41), 2.970(100), 2.848(84), 2.157(34)

IMA No. 2007-024

Silver Coin mine, Valmy, Iron Point district, Humboldt County, Nevada, USA

Anthony R. Kampf



Meurigite group

Monoclinic: $C2/c$

a 28.835, b 5.1848, c 19.484 Å, β 106.983°

13.80(20), 9.349(100), 4.843(20), 4.318(20), 3.206(40), 3.107(30), 2.971(15), 1.574(20)

IMA No. 2007-025

Blue Cap mine, about 15 km east of La Sal, San Juan Co., Utah, USA

Anthony R. Kampf



Pascoite group

Monoclinic: $C2/m$; structure determined

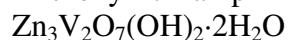
a 19.8442, b 9.9353, c 10.7149 Å, β 120.305°

9.242(20), 8.872(30), 8.571(100), 7.270(40), 5.477(15), 4.590(15), 4.355(15), 2.137(20)

IMA No. 2007-026

Blue Cap mine, about 15 km east of La Sal, San Juan Co., Utah, USA

Anthony R. Kampf



Zn-dominant analogue of volborthite

Hexagonal: $P\bar{3}m1$; structure determined

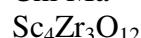
a 6.0818, c 7.1793 Å

7.211(100), 4.252(20), 2.968(50), 2.628(35), 2.470(40), 1.773(20), 1.513(20), 1.485(25)

IMA No. 2007-027

Allende meteorite, Pueblito de Allende, Chihuahua, Mexico

Chi Ma



New structure type

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

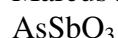
a 9.396, c 8.720 Å

4.698(5), 2.900(100), 2.513(18), 1.779(27), 1.776(32), 1.515(19), 1.450(4), 1.152(4)

IMA No. 2007-028

Tsumeb, Namibia

Marcus J. Origlieri



Claudetite group

Monoclinic: $P2_1/n$; structure determined

a 4.5757, b 13.1288, c 5.4216 Å, β 95.039°

4.99(32), 3.51(100), 3.282(82), 3.238(71), 2.805(39), 2.801(31), 2.656(28), 2.279(34)

IMA No. 2007-029

Allende meteorite, Pueblito de Allende, Chihuahua, Mexico

Chi Ma

(Mo,Ru,Fe,Ir,Os)

Hexagonal: $P63/mmc$

a 2.7506, c 4.4318 Å

2.382(24), 2.216(26), 2.098(100), 1.622(15), 1.375(17), 1.255(18), 1.169(20), 1.150(14)

IMA No. 2007-030

La Fossa crater, Vulcano, Aeolian Islands, Italy

Francesco Demartin



Orthorhombic: $Pbcn$; structure determined

a 10.810, b 8.336, c 6.822 Å

6.631(70), 5.429(14), 3.317(28), 2.983(100), 2.702(82), 2.648(14), 2.208(30), 1.712(58)

IMA No. 2007-031

Mount Kukisvumchorr, Khibina alkaline massif, Kola Peninsula, Russia

Alexander P. Khomyakov



Canasite group

Monoclinic: Cm ; structure determined

a 18.846, b 7.242, c 12.650(2) Å, β 111.84°

5.872(31), 4.724(20), 4.711(25), 4.204(40), 3.012(22), 2.915(100), 2.357(30), 2.310(23)

IMA No. 2007-032

Poudrette quarry, Mont Saint-Hilaire, Rouville County, Québec, Canada

Igor V. Pekov

 $\text{NaBe}(\text{CO}_3)(\text{OH}) \cdot 2\text{H}_2\text{O}$

New structure type

Tetragonal: $P4/mcc$; structure determined a 13.087, c 5.404 Å

13.01(100), 9.20(62), 3.611(34), 3.256(95), 2.693(44), 2.605(37), 2.489(60), 2.076(32)

IMA No. 2007-033

Allende meteorite, Pueblito de Allende, Chihuahua, Mexico

Chi Ma

MoNiP

Barringerite group

Hexagonal: $P\bar{6}\ 2m$ a 5.681, c 3.704 Å

2.298(100), 2.094(69), 1.918(73), 1.852(24), 1.408(20), 1.332(17), 1.316(18), 1.111(14)

IMA No. 2007-034

Luobusa mine, Qusong County, Tibet, China

Fang Qinsong

WC

Hexagonal: $P\bar{6}\ m2$ a 2.902, c 2.831 Å

2.833(44), 2.511(94), 1.878(90), 1.449(25), 1.291(36), 1.233(22), 1.149(23), 0.9008(23)

IMA No. 2007-035

Luobusa mine, Qusong County, Tibet, China

Shi Nicheng

 $(\text{Cr}_4\text{Fe}_4\text{Ni})_{\Sigma 9}\text{C}_4$ Hexagonal: $P6_3mc$; structure determined a 18.839, c 4.4960 Å

6.920(100), 4.530(35), 3.596(55), 2.493(36), 2.023(98), 1.998(32), 1.825(47), 1.798(45)

IMA No. 2007-036

Luobusa mine, Qusong County, Tibet, China

Li Guowu

 TiFeSi_2 Orthorhombic: $Pbam$; structure determined a 8.6053, b 9.5211, c 7.6436 Å

3.822(35), 2.294(18), 2.230(97), 2.124(100), 2.098(43), 1.911(44), 1.829(19), 1.292(19)

IMA No. 2007-037

Horoman, Samani-cho, Samani-gun, Hokkaido, Japan

Arashi Kitakaze

 $\text{Fe}_6\text{Ni}_3\text{S}_8$ Tetragonal: $P4/mmm$ a 8.707, c 10.439 Å

6.160(10), 3.080(100), 2.955(32), 2.435(6), 1.984(25), 1.947(51), 1.825(60), 1.805(54)

IMA No. 2007-038

Horoman, Samani-cho, Samani-gun, Hokkaido, Japan

Arashi Kitakaze

 $\text{Cu}_2\text{Fe}_5\text{Ni}_2\text{S}_8$ Tetragonal: $P4_2/mmm$ a 10.089, c 10.402 Å

5.880(15), 3.118(100), 3.050(20), 2.703(5), 1.981(5), 1.873(25), 1.844(50), 1.595(45)

IMA No. 2007-039

Poudrette quarry, Mont Saint-Hilaire, Rouville County, Quebec, Canada.

Joel D. Grice

 $(\text{Ce},\text{REE})_3(\text{Na},\text{H}_2\text{O})_6\text{MnSi}_9\text{Be}_5(\text{O},\text{OH})_{30}\text{F}_4$ Monoclinic: $C2/c$; structure determined a 11.654, b 13.916, c 16.583 Å, β 95.86°

8.120(100), 3.543(39), 3.454(21), 3.176(19), 2.959(24), 2.863(48), 2.749(23), 2.668(33)

IMA No. 2007-040

Fuengirola, Málaga Province, Spain

María Dolores Ruiz Cruz

 $(\text{NH}_4)\text{Fe}_3(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$

Mica group

Monoclinic: $C2/m$? a 5.296, b 9.199, c 10.412(6) Å, β 99.991°

10.242(83), 3.422(46), 3.170(33), 2.290(16), 2.011(16), 2.007(18), 1.544(23), 1.524(15)

IMA No. 2007-041

Koashva Mountain, Khibiny Massif, Kola Peninsula, Russia

Victor N. Yakovenchuk

Polytype C

 $\text{Na}_2[\text{Ti}_4\text{O}_2(\text{OH})_2(\text{SiO}_4)_3]\cdot 6\text{H}_2\text{O}$ Cubic: $P\bar{4}3m$ a 7.856 Å

7.88(100), 4.53(30), 3.20(80), 2.774(30), 2.622(40), 2.478(40), 1.96(30), 1.843(30)

Polytype T

 $\text{Na}_3[\text{Ti}_4(\text{OH})_3(\text{SiO}_4)_3]\cdot 7\text{H}_2\text{O}$ Trigonal: $R3m$ a 10.94, c 13.97 Å

7.88(100), 3.277(60), 3.175(80), 2.730(50), 2.607(70), 2.471(50), 1.960(60), 1.916(50)

IMA No. 2007-042

Koashva Mountain, Khibiny Massif, Kola Peninsula, Russia

Victor N. Yakovenchuk

 $\text{K}_2[\text{Ti}_4(\text{OH})_2\text{O}_2(\text{SiO}_4)_3]\cdot 9\text{H}_2\text{O}$ Cubic: $P\bar{4}3m$ a 7.808 Å

7.85(100), 3.91(20), 3.201(80), 2.765(20), 2.602(30), 2.471(40), 1.951(30), 1.839(30)

IMA No. 2007-043

Koashva Mountain, Khibiny Massif, Kola Peninsula, Russia

Victor N. Yakovenchuk
 $\text{Cu}[\text{Ti}_4(\text{OH})_2\text{O}_2(\text{SiO}_4)_3]\cdot 7\text{H}_2\text{O}$
Cubic: $P\bar{4}3m$
 a 7.850 Å
7.87(100), 3.94(20), 3.205(80), 2.774(20), 2.616(30), 2.481(30), 1.960(30), 1.843(30)

IMA No. 2007-044

Biachella Valley, Sacrofano municipality, Rome province, Latium region, Italy

Nikita V. Chukanov
 $(\text{Na,Ca,K})_8(\text{Si}_6\text{Al}_6\text{O}_{24})(\text{SO}_4)_2(\text{OH})_{0.5}\cdot \text{H}_2\text{O}$
Cancrinite group
Trigonal: $P3$; structure determined
 a 12.913, c 79.605 Å
11.07(19), 6.45(18), 4.782(15), 3.720(100), 3.576(18), 3.469(14), 3.300(47), 3.220(16)

IMA No. 2007-045

Colima volcano, Colima State, México

Mikhail Ostrooumov
 K_3VS_4
Orthorhombic: $Pnma$
 a 9.138, b 10.627, c 9.131 Å
3.464(77), 3.237(57), 3.229(66), 2.926(70), 2.890(52), 2.799(100), 2.787(75), 2.676(80)

IMA No. 2007-046

Sarbai Mine, Turgai region, Kazakhstan

Luca Bindi
 $[\text{Cu}_6\text{As}_2\text{S}_7][\text{Ag}_9\text{CuS}_4]$
Pearceite-polybasite group
Trigonal: $P\bar{3}m1$; structure determined
 a 7.3218, c 11.8877 Å
11.89(54), 3.063(38), 2.972(100), 2.797(44), 2.476(45), 2.349(45), 2.168(42), 1.831(50)

IMA No. 2007-047

Mina Asunción, Sierra Gorda, Caracoles District, Antofagasta Province, Chile

Joël Brugger
 $\text{Pb}_2[\text{B}_5\text{O}_9]\text{Cl}\cdot 0.5\text{H}_2\text{O}$
Hilgardite group
Orthorhombic: $Pnn2$; structure determined
 a 11.3757, b 11.5051, c 6.5568 Å
5.71(80), 4.04(100), 3.29(40), 3.16(30), 2.84(100), 2.55(40), 2.019(70), 1.877(40)

IMA No. 2007-049

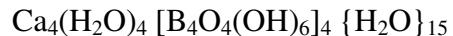
Kumdy Kol, Kokchetav, Northern Kazakhstan

Shyh-Lung Hwang
 $\text{NaAlSi}_3\text{O}_8$
Feldspar group
Orthorhombic: $P2nn$ or Pmn
 a 8.24, b 8.68, c 4.84 Å
5.97, 4.33, 4.21, 4.18, 4.12, 3.76, 3.23, 3.02, 2.95, 2.74

IMA No. 2007-050

Santa Rosa mine, Sijes, Salta province, Argentina

Frank C. Hawthorne



New structure type

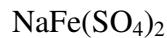
Orthorhombic: $Pca2_1$; structure determined a 12.161, b 40.477, c 10.1843 Å

10.501(10), 9.992(5), 5.226(7), 4.623(6), 3.837(7), 3.118(7), 2.612(6), 2.538(6)

IMA No. 2007-051

Eldfell, Heimaey island, Vestmannaeyjar archipelago, Iceland

Tonči Balić-Žunić



Yavapaiite group

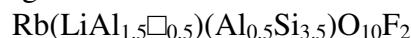
Monoclinic: $C2/m$ a 8.022, b 5.135, c 7.123 Å, β 92.15°

3.72(76), 3.64(54), 3.43(54), 2.77(100), 2.72(57), 2.57(31), 2.370(63), 1.650(32)

IMA No. 2007-052

Mt. Vasin-Myl'k, Voron'i Tundry, Kola Peninsula, Russia

Igor V. Pekov



Mica group

Monoclinic: $C2/c$ a 5.191, b 9.025, c 20.40 Å, β 95.37°

10.1(60), 5.08(40), 4.55(80), 3.98(40), 3.49(50), 3.35(60), 2.575(100), 2.017(50)

IMA No. 2007-053

Kabutoichiba, Kameyama, Mie Prefecture, Japan

Yasuyuki Banno



Amphibole group

Monoclinic: $C2/m$; structure determined a 9.937, b 18.108, c 5.335 Å, β 105.30°

8.48(81), 3.40(51), 3.15(46), 2.72(100), 2.61(59), 2.57(43), 2.36(37), 2.17(39)

IMA No. 2007-054

Klöch, north of Bad Radkersburg, Eastern Styria, Austria

Hans-Peter Bojar



Milarite group

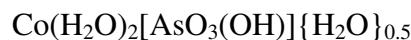
Hexagonal: $P6/mcc$; structure determined a 10.120, c 14.298 Å

7.149(100), 5.540(43), 4.130(40), 3.736(70), 3.227(67), 2.920(40), 2.770(68), 2.530(43)

IMA No. 2007-055

Keeley mine, South Lorrain Township, Timiskaming District, Ontario, Canada

Frank C. Hawthorne



New structure type

Monoclinic: $P2_1/n$; structure determined
 a 4.7058, b 9.299, c 12.738 Å, β 98.933°
7.446(100), 6.267(44), 3.725(29), 3.260(25), 3.089(20), 2.998(31), 2.970(21), 2.596(23)

IMA No. 2007-056

Suizhou L6 chondrite: Dayanpo, Suizhou County, Hubei Province, China

Ming Chen

FeCr_2O_4

Spinel group

Orthorhombic: $Bbmm$

a 9.462, b 9.562, c 2.916 Å

2.650(100), 2.389(20), 2.089(10), 1.953(90), 1.566(60), 1.439(15), 1.425(15), 1.337(40)

IMA No. 2007-057

Granite quarry 10 km SSW of the township of Lake Boga, northwestern Victoria, Australia

Stuart J. Mills

$\text{CuFe}^{3+}_2(\text{PO}_4)_2(\text{OH})_2 \cdot 4\text{H}_2\text{O}$

Whitmoreite group

Monoclinic: $P2_1/c$

a 9.863, b 9.661, c 5.476 Å, β 92.45°

9.849(100), 6.892(80), 4.924(80), 4.386(90), 4.333(45), 4.225(35), 2.697(60), 2.654(31)

IMA No. 2007-058

Altebürg, Otting and Seelbronn in and around the Ries Crater in Bavaria, Germany

Ahmed El Goresy

TiO_2

Baddeleyite group

Monoclinic: $P2_1/c$

a 4.606, b 4.986, c 4.933 Å, β 99.17°

2.929(100), 2.626(91), 2.494(24), 2.437(42), 2.017(40), 1.742(40), 1.686(42), 1.54(31)

IMA No. 2007-059

Talnakh deposit, Noril'sk-Talnakh camp, Taimyr Autonomous District, Siberia, Russia

Anna Vymazalová

$\text{Pd}_3\text{Pb}_2\text{Te}_2$

Shandite group

Orthorhombic: $Pmmn$; structure determined

a 8.599, b 5.9381, c 6.3173 Å

6.3152(34), 3.1572(33), 3.0495(100), 2.5456(63), 2.4424(34), 2.2786(42), 2.1637(71),

1.8906(42)

IMA No. 2007-060

Ratti quarry, Baveno, Verbania, Piemonte region, Italy

Fabrizio Nestola

$(\text{Ce}, \text{Ln}, \text{Ca})_9(\text{Al}, \text{Fe}^{3+})(\text{SiO}_4)_3[\text{SiO}_3(\text{OH})]_4(\text{OH})_3$

Cerite group

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

a 10.581, c 37.932 Å

3.405(27), 3.250(26), 2.914(100), 2.647(58), 2.198(40), 1.923(34), 1.750(46), 1.732(34)

IMA No. 2007-061

Mono Lake, California, USA

Hexiong Yang

 $\text{KNaMg}_2(\text{PO}_4)_2 \cdot 14\text{H}_2\text{O}$

Struvite group

Orthorhombic: *Pmnb*; structure determined $a = 6.9349, b = 25.1737, c = 11.2189 \text{ \AA}$

4.302(100), 4.184(22), 3.262(20), 2.803(32), 2.786(43), 2.767(51), 2.742(48), 2.670(51)

OLDER PROPOSALS**IMA No. 2006-019a**

Cassagna mine, Val Graveglia, eastern Liguria, northern Apennines, Italy

Riccardo Basso

 $(\text{Ca},\text{Mn}^{2+})_4(\text{Fe}^{3+},\text{Mn}^{3+},\text{Al})_4(\text{OH})_4(\text{V}^{3+},\text{Mg},\text{Al})_2(\text{O},\text{OH})_4(\text{Si}_3\text{O}_{10})(\text{SiO}_4)_2$ Orthorhombic: *Cmcm*; structure determined $a = 6.066, b = 8.908, c = 18.995 \text{ \AA}$

9.52(100), 4.98(45), 4.85(50), 4.03(40), 3.02(60), 2.66(70), 2.54(60), 2.32(40)

IMA No. 98-053a

Bendada near Guarda, province Beira Alta, central Portugal

Uwe Kolitsch

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

Whitmoreite group

Monoclinic: *P2₁/c*; structure determined $a = 10.239, b = 9.713, c = 5.552 \text{ \AA}, \beta = 94.11^\circ$

10.22(10), 7.036(8), 4.833(3), 4.520(2), 4.250(5), 3.490(2), 2.907(3), 2.865(4)

IMA No. 2002-045b

Menzenschwand, Southern Black Forest, Baden-Württemberg, Germany

Kurt Walenta and Frédéric Hatert

 $(\text{K},\text{U},\square)(\text{UO}_2)_3(\text{AsO}_4)(\text{OH})_4 \cdot \text{H}_2\text{O}$

New structure type

Orthorhombic: *Cccm*; structure determined $a = 8.154, b = 11.55, c = 13.75 \text{ \AA}$

6.71(80), 6.03(100), 3.78(70), 3.33(80), 2.96(60), 2.88(40), 2.63(50), 1.942(50).

IMA No. 2006-051

Dolores prospect, Pastrana, Murcia Province, Spain

John L. Jambor

 $(\text{Ca},\text{Cu},\text{Na},\text{Fe}^{3+},\text{Al})_{12}\text{Al}_2(\text{AsO}_4)_8(\text{OH},\text{Cl})_x \cdot n\text{H}_2\text{O}$

Smolianinovite group (?)

Monoclinic: *P2/a* or *Pa* $a = 9.972, b = 22.44, c = 5.272(8) \text{ \AA}, \beta = 92.9^\circ$

22.0(100), 11.16(70), 4.983(50), 3.655(25), 3.333(45), 3.003(30), 2.767(30)

IMA No. 89-035a

Glücksstern mine, Gottlob Hill, Friedrichroda, Thüringen, Germany

Thomas Witzke

 LaVO_4

Xenotime group
Tetragonal: $I4_1/amd$; structure determined
 a 7.406, c 6.504 Å
3.707(100), 2.939(5), 2.759(10), 2.623(7), 2.309(5), 2.088(5), 1.902(4), 1.853(19)

WITHDRAWAL OF AN APPROVED MINERAL

Proposal 2005-012 was approved (mineral and name) in June 2005. The authors have recently submitted additional data on this phase which show that it is merely a monoclinic polytype of mackelveyite-(Y), namely mackelveyite-(Y)-2M. The approval for this proposal is thus withdrawn.

CHANGES IN EXISTING NOMENCLATURE

IMA No. 07-A

The mineral surkhobite and its name are revalidated. Surkhobite is redefined as $(Ba,K)_2CaNa(Mn,Fe^{2+},Fe^{3+})_8Ti_4(Si_2O_7)_4O_4(F,OH,O)_6$, it differs from jinshaijiangite because Mn prevails over Fe²⁺, and it differs from perraultite because Ca dominates in the A(6) site. Decision IMA No. 06-E [Species and name surkhobite (IMA 2002-037) have been discredited because the species corresponds to jinshaijiangite (IMA 81-061)] is thus nullified.

Meurigite

The approval of IMA No. 2007-024 necessitates a name change for meurigite (IMA No. 95-022) into meurigite-K.

Ardennite

The approval of IMA No. 2005-037 for ardennite-(V) and its publication in Eur. J. Mineral., 19 (2007), 581-587 necessitates a name change for ardennite into ardennite-(As).

IMA No. 07-B

The mineral calcio-olivine is redefined as the calcium-dominant member of the olivine group. Calcio-olivine is the natural equivalent of synthetic γ -Ca₂SiO₄, not of synthetic α -Ca₂SiO₄ as erroneously reported in literature. Calcio-olivine is a polymorph of larnite, monoclinic β -Ca₂SiO₄.

IMA No. 07-C

Several decisions have been taken on the nomenclature of a number of mineral names: The authors of new-mineral proposals should use a suffix nomenclature rather than a prefix nomenclature. Some minerals in well-known groups are to be renamed. Mineral names consisting of two words are to be renamed.

Mineral names having superfluous hyphens are to be renamed (with the exception of the current amphibole names, for which a subcommittee is discussing a new nomenclature). Minerals named after localities or persons should have the original spelling in their name, including the diacritical marks. A list of such names is to be published.

Mineral names having superfluous diacritical marks (marks not present in the original names of localities or persons) are to be renamed.

Lists of mineral names to be changed by these decisions have been published by the chairman in *Mineralogical Record*, 39 (2008), 131-135. The paper is available on the CNMNC website.

PUBLICATION OF IMA-CNMNC REPORT

The report of the Subcommittee for Unnamed Minerals on a system of codification for unnamed minerals has been published by Dorian G.W. Smith and Ernest H. Nickel in Canadian Mineralogist, 45 (2007), 983-1055. The paper contains a complete list of unnamed minerals. Paper and lists are available on the CNMNC website.