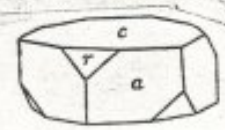

Litchfield, Conn.

Ilmenite

MICROMOUNTERS OF NEW ENGLAND

APRIL 29, 1984 NEWSLETTER #89

The next meeting of the Micromounters of New England will be our special Northeast Meeting, May 19th, at the Greenfield Communtiy College, Greenfield, MA. We hope that by now you have sent in your registration form. We ask that you arrive around 9:30 A.M. so that we do not have to contend with late registrations.

Also, we ask that you please help us by bringing in more give-away material as the club's supply is getting depleted. Remember to place the donor's name on the material in order to aid anyone who might have questions regarding the specimens. Material need not be in trimmed-for-mounting condition, but that is always nice.

Please don't forget to bring extention cords.

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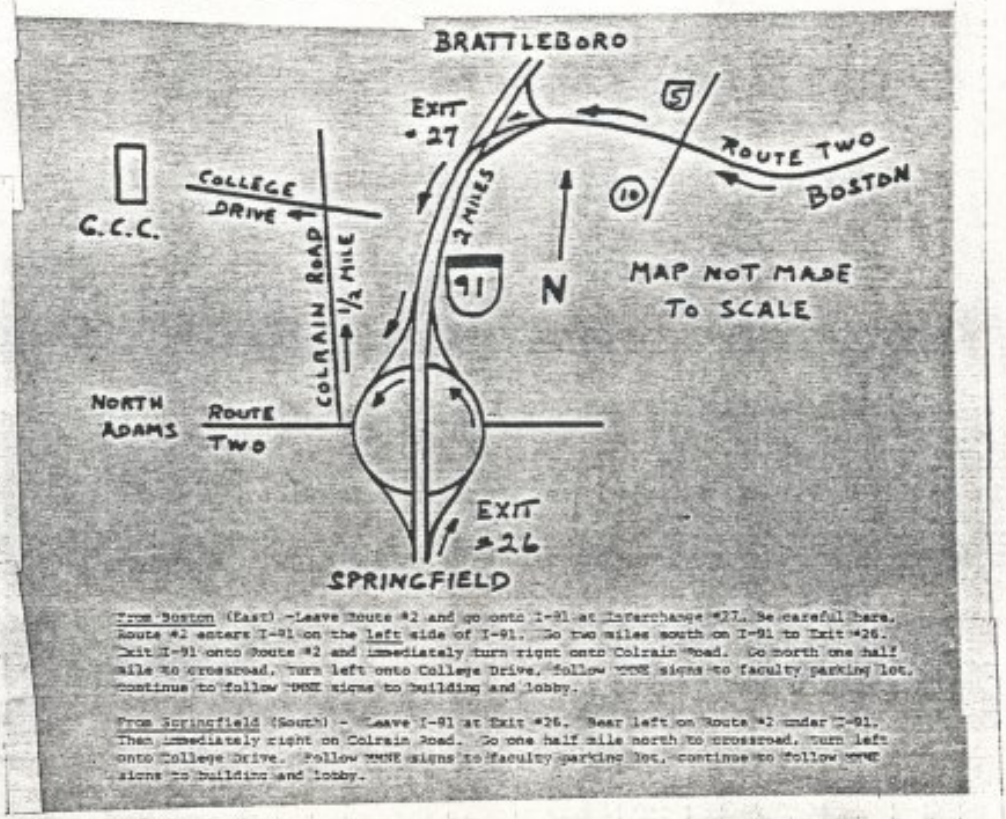

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Dues are $3.50 per year and are due on January 1, payable to the treasurer.

Contributions of news items for the Bulletin are welcome and should be sent to the Bulletin

Additions & Corrections to the Glossary of Mineral Species 1983

by **Michael Fleischer**
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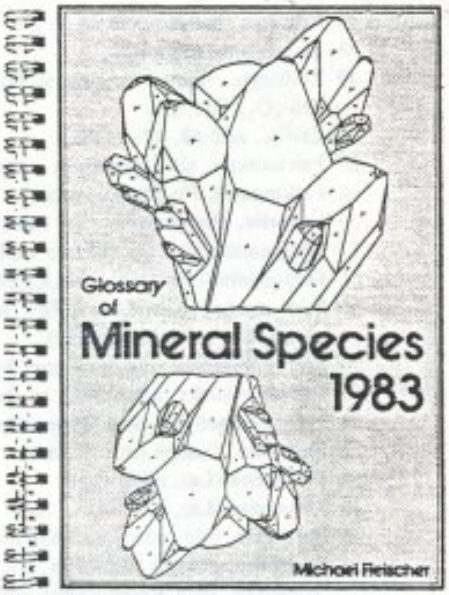

In the eleven months from October 15, 1982, to September 15, 1983, the torrent of new data on minerals has not abated. This appended list of additions and corrections to the 1983 Glossary contains nearly 300 entries, 73 of which describe new minerals.

I am indebted to many friends for suggestions, and especially to Robert Cobban, Lakewood, Colorado; Jim Ferraiolo, Smithsonian Institution, Washington, D.C.; Andrew Palmer, Mayfield, New York; and George Shokal, San Carlos, California, for thoughtful and incisive comments that have led to improvements in the Glossary.

Page

2 **Aeschynite-(Nd)**, $(Nd,Ce,Ca)(Ti,Nb)_2(O,OH)_6$, orth.
2 **Agardite**, add **Mixite** group
2 Ainalite = tantalian **Cassiterite**
5 Alurgite change to "magnesian ferrian manganian **Muscovite**"
6 **Anduoite** in the reference, change 806 to 808
7 **Aphthitalite** change hex. to trig.
8 **Ardaite**, $Pb_{19}Sb_{13}S_{35}Cl_7$, mon., **68**, 642 (1983)
8 **Argutite**, GeO_2, tet., **Rutile** group
8 **Arhbarite**, $Cu_2(AsO_4)(OH)\cdot 6H_2O$, blue
9 **Arsendescloizite**, add **68**, 280 (1983)
10 **Atelestite**, change formula to $Bi_8(AsO_4)_3O_5(OH)_5$
12 **Balangeroite**, $(Mg,Fe^{+2},Fe^{+3},Mn^{+2})_{42}Si_{13}O_{54}(OH)_{36}$, orth., brown, fib., compare **Gageite**, **68**, 214–219 (1983)
12 **Bannermanite**, formula $(Na,K)_x V^{+4}_x V^{+5}_{6-x} O_{15}$, add **68**, 634–642 (1983)
13 **Baricite**, add "compare **Vivianite.**"
14 **Bassanite**, change trig. to hex.
14 **Becquerelite**, formula $Ca(UO_2)_6O_4(OH)_6\cdot 8H_2O$
15 **Benavidesite**, add **68**, 280 (1983)
16 **Berdesinskiite**, add **67**, 1074 (1982)
17 **Billietite**, formula $Ba(UO_2)_6O_4(OH)_6\cdot 8H_2O$
18 **Bismite**, delete "dimorph. with **Sillenite**"
18 **Bismutostibiconite**, $Bi(Sb^{+5},Fe^{+3})_2O_7$, cub., **Stibiconite** group
19 **Boleite**, change formula to $Pb_{26}Ag_{10}Cu_{24}Cl_{62}(OH)_{48}\cdot 3H_2O$
19 **Bonshtedtite**, $Na_3Fe^{+2}(PO_4)(CO_3)$, mon., ps. orth., compare **Bradleyite**, **Sidorenkite**
20 **Bradleyite**, add "compare **Bonshtedtite**"
23 **Burangaite**, add "compare **Natrodufrenite**"
24 **Cabriite**, Pd_2SnCu, orth., Can Mineral. **21**, 481–487 (1983)
24 **Calciobetafite**, $(Ca,Na,Ce,U,Th)_2Zr_2(Ti,Nb,Fe)_4O_{14}$, cub., **Pyrochlore** group, dimorph. with **Zirkelite**, **68**, 262–276 (1983)
24 **Calciotantite**, add **68**, 471 (1983)
26 **Carboirite**, $Fe^{+2}Al_2GeO_5(OH)_2$, tric., green, forms a series with **Chloritoid**
26 **Carnotite**, add "compare **Margaritasite**"
27 **Cassidyite**, change formula to $Ca_2(Ni,Mg)(PO_4)_2\cdot 2H_2O$
27 Cathophorite, move to precede Catoptrite
28 **Cechite**, add **67**, 1074 (1982)
29 **Cesstibtantite**, change formula to $(Cs,Na)SbTa_4O_{12}$, add "compare **Natrobistantite**"
29 **Chalcostibite**, change formula to $CuSbS_2$
30 **Chameanite**, add **67**, 1074–1075 (1982)
30 **Chessexite**, $Na_4Ca_2(Mg,Zn)_3Al_8(SiO_4)_2(SO_4)_{10}(OH)_{10}\cdot 40H_2O$, orth.
31 **Chiavennite**, $CaMnBe_2Si_5O_{13}(OH)_2\cdot 2H_2O$, orth., orange, **68**, 623–633 (1983)
31 **Chloritoid**, add "forms a series with **Carboirite**"
31 **Chlormagaluminite**, add **68**, 849 (1983)
31 **Chlorophoenicite**, add "compare **Jarosewichite**"
32 **Chloroxiphite**, should precede **Choloalite**
32 **Chromdravite**, $NaMg_3(Cr,Fe^{+3})_6(BO_3)_3Si_6O_{18}(OH)_4$, trig., dark green, **Tourmaline** group
33 **Claraite**, add **68**, 471 (1983)
35 **Collinsite**, change formula to Ca_2
35 **Colusite**, change formula to $Cu_{26}V_2(As,Sn,Sb)_6S_{32}$
36 **Compreignacite**, formula is $K_2(UO_2)_6O_4(OH)_6\cdot 8H_2O$
37 **Coyoteite**, $NaFe_3S_5\cdot 2H_2O$, tric., **68**, 245–254 (1983)
38 **Cronstedtite**, formula $Fe^{+2}_2Fe^{+3}(SiFe^{+3})O_5(OH)_4$
39 **Cuztiçite**, add **68**, 471 (1983)
39 **Cyanophillite** misspelled
40 **Daomanite**, add **65**, 408 (1980)
42 **Dervillite**, Ag_2AsS_2, mon.
44 **Dufrenite**, add "compare **Natrodufrenite**"
45 **Dwornikite**, $(Ni,Fe^{+2})SO_4\cdot H_2O$, mon., **Kieserite** group, **68**, 642 (1983)

4.

48 **Ericaite**, change formula to $(Fe^{+2},Mg,Mn)_3B_7O_{13}Cl$
48 **Ericssonite**, misspelled
49 **Eudialyte**, change formula to $Na_4(Ca,Ce)_2(Fe^{+2},Mn)ZrSi_6O_{22}(OH,Cl)_2$
49 **Eztlite**, add **68**, 471 (1983)
50 **Fairbankite**, add "dimorph. with **Plumbotellurite**"
50 **Falkmanite**, $Pb_5Sb_4S_{11}$, mon.
50 **Fedorite**, change mon., ps. hex. to tric.
51 **Fengluanite**, change 1981 to 1980
51 **Fergusonite-beta-(Nd)**, $(Nd,Ce)NbO_4$, mon.
51 **Ferri-annite**, $K(Fe^{+2},Mg)_3(Fe^{+3},Al)Si_3O_{10}(OH)_2$, mon., **Mica** group, **67**, 1179–1194 (1982)
53 **Ferrocolumbite**, add "compare **Magnocolumbite**"
53 **Ferrokaersutite**, add $(OH)_2$ to the formula
54 **Ferropumpellyite**, add "Pumpellyite group"
55 **Fichtelite**, change orth. to mon.
55 **Florencite-(La)**, misspelled
55 **Fluocerite-(La)**, $(La,Ce)F_3$, hex.
56 **Fornacite**, add "compare **Molybdofornacite**"
56 **Forsterite**, change "dimorph. with **Ringwoodite**" to "trimorph. with **Ringwoodite** and **Wadsleyite**"
57 **Friedelite**, change trig. to "mon., ps. trig."
57 **Fülöppite**, reference should be **15**, 201–202 (1930)
57 **Furutobeite**, add **67**, 1075 (1982)
58 **Gageite**, change formula to $(Mn,Mg,Zn)_{42}Si_{15}(O,OH)_{90}$, add "compare **Balangeroite**"
59 **Gebhardite**, change formula to $Pb_8(As_2^{+3}O_5)_2OCl_6$
59 **Geffroyite**, add **67**, 1074–1075 (1982)
60 **Georgiadesite**, formula is $Pb_{16}(AsO_4)_4Cl_{14}O_2(OH)_2$, or $Pb_{16}(AsO_4)_4Cl_{14}(OH)_6$. Change orth. to mon.
61 **Giraudite**, add **67**, 1074–1075 (1982)
62 **Gobbinsite**, $Na_4(Ca,Mg,K_2)Al_8Si_{10}O_{32}\cdot 12H_2O$, tet., **Zeolite** group, **68**, 642–643 (1983)
62 **Gordonite**, add "**Paravauxite** group"
62 **Gortdrumite**, $(Cu,Fe)_6Hg_2S_5$, orth., Mineralog. Mag. **47**, 35–36 (1983)
63 **Goudeyite**, add "**Mixite** group"
63 **Grayite**, add "compare **Ningyoite**, **Rhabdophane**"
64 **Grossular**, change "forms two series" to "forms three series"
65 **Gustavite**, add "forms a series with Lillianite"
67 **Hausmannite**, delete "compare **Iwakiite**"
69 **Hetaerolite**, delete "compare **Iwakiite**"
69 **Hewettite**, change orth. to mon.
70 **Hingganite-(Y)**, $(Y,Yb,Er)BeSiO_4(OH)$, mon., compare **Datolite**
70 **Hingganite-(Yb)**, $(Yb,Y)BeSiO_4(OH)$, mon., compare **Datolite**
71 Hokutolite = plumboan **Barite**, $(Ba,Pb)SO_4$
71 **Honessite**, change **Pyroaurite** group to **Hydrotalcite** group
73 **Hyalotekite**, $(Ba,Pb,Ca,K)_6(B,Si,Al)_2(Si,Be)_{10}O_{28}(F,Cl)$, tric., ps. mon., **67**, 1012–1020 (1982)
73 **Hydrobiotite**, 1:1 regular interstratification of **Biotite** and **Vermiculite** layers, mon., **Mica** group, **68**, 420–425 (1983)
73 **Hydrombobomkulite**, correct misspelling and move to p. 74
77 **Imogolite**, add **54**, 50–71 (1969)
78 **Iraqite**, change hex. to tet.
78 **Isomertieite**, add **68**, 851 (1983)
79 **Jarosewichite**, $Mn^{+2}Mn^{+3}(AsO_4)(OH)_6$, orth., dark red, compare **Chlorophoenicite** and **Magnesium-chlorophoenicite**, **67**, 1043–1047 (1982)
79 **Jeanbandyite**, add **68**, 471–472 (1983)
80 **Johannite**, add **68**, 851 (1983)
80 **Johillerite**, add **67**, 1075 (1982)
81 **Julgoldite**, add "**Pumpellyite** group"
84 **Keckite**, add "compare **Whiteite**"
84 **Kegelite**, formula should be $Pb_{12}(Zn,Fe^{+2})_2Al_4(SO_4)_4Si_{11}O_{38}$
84 **Kermesite**, change mon. to tric., ps. mon.
85 **Khademite**, add "compare **Rostite**"
87 **Kolfanite**, add **68**, 280 (1983)
87 **Konyaite**, $Na_2Mg(SO_4)_2\cdot 5H_2O$, mon., **67**, 1035–1038 (1982?
87 **Korshunovskite**, misspelled, add **68**, 643 (1983)
88 **Krinovite**, add "Aenigmatite group"
89 Kurgantaite = strontian **Tyretskite**
90 **Laffittite**, add "compare **Marrite**"
90 **Langite**, change "trimorph. with **Posnjakite** and **Wroewolfeite**" to "dimorph. with **Wroewolfeite**"
90 **Lannonite**, $HCa_4Mg_2Al_4(SO_4)_8F_9\cdot 3H_2O$, tet., Mineralog. Mag. **47**, 37–40 (1983)
91 **Laueite**, add "**Paravauxite** group"
91 **Lawsonbauerite**, change formula to $(Mn,Mg)_9Zn_4(SO_4)_2(OH)_{22}\cdot 8H_2O$, add **67**, 1029–1034 (1982)
93 **Lermontovite**, change formula to $U^{+4}(PO_4)(OH)\cdot H_2O$ (?), add "orth., fib., gray-green"
93 **Levyne**, correct spelling of Levynite
94 **Liebigite**, change formula to $Ca_2(UO_2)(CO_3)_3\cdot 11H_2O$
94 **Lillianite**, add "forms a series with **Gustavite**"
94 **Lindsleyite**, $(Ba,Sr)(Ti,Cr,Fe,Mg,Zr)_{21}O_{38}$, trig., black, **Crichtonite** group, **68**, 494–505 (1983)
94 **Lithiotantite**, $Li(Ta,Nb)_3O_8$, mon.
94 **Lithosite**, $K_4Al_4Si_8O_{25}\cdot 2H_2O$, mon., ps. orth.
95 **Lotharmeyerite**, $CaZnMn^{+3}(AsO_4)_2\cdot 2H_2O$, reddish-orange, Mineralog. Record **14**, 35–36 (1983), **68**, 849 (1983)
95 **Loudounite**, $NaCa_3Zr_4Si_{16}O_{40}(OH)_{11}\cdot 8H_2O$, Can. Mineral. **21**, 37–40 (1983)
96 **Luddenite**, $Pb_2Cu_2Si_2O_{14}\cdot 14H_2O$, mon., green, **68**, 643 (1983)
96 **Lun'okite**, $(Mn,Ca)(Mg,Fe^{+2},Mn)Al(PO_4)_2(OH)\cdot 4H_2O$, orth., **Overite** group
97 **Machatschkiite**, change formula to $(Ca,Na)_6(As^{+5}O_4)(As^{+5}O_3OH)_3(PO_4,SO_4)\cdot 15H_2O$. Add **68**, 851–852 (1983)
100 **Makatite**, change orth. to mon., add **68**, 852 (1983)
101 **Mansfieldite**, correct spelling of **Scorodite**
102 **Marcasite**, add "orth."
102 **Margaritasite**, $(Cs,K,H_3O)(UO_2)_2(VO_4)_2\cdot H_2O$, mon., yellow compare **Carnotite**, **Tyuyamunite**, **67**, 1273–1289 (1982)
102 **Marrite**, add "compare **Laffittite**"
102 **Mathiasite**, $(K,Ca,Sr)(Ti,Cr,Fe,Mg)_{21}O_{38}$, trig., black, **Crichtonite** group, **68**, 494–505 (1983)
103 **McGillite**, change trig. to "mon., ps. trig."
104 **Meixnerite**, formula should be $Mg_6Al_2(OH)_{18}\cdot 4H_2O$
104 **Melanothallite**, Cu_2OCl_2, orth., black, **68**, 852 (1983)
105 **Mertieite-II**, change 1975 to 1976
106 **Metahewettite**, $CaV_6O_{16}\cdot 3H_2O$, mon., deep red
106 **Metakoettigite**, $(Zn,Fe^{+3},Fe^{+2})_3(AsO_4)_2\cdot 8(H_2O, OH)$, tric., bluish-gray, compare **Metavivianite**, **Symplesite**
107 **Metastudtite**, $UO_4\cdot 2H_2O$, orth., pale yellow, **68**, 456–458 (1983)
107 **Metavanmeersscheite**, add **67**, 1077 (1982)
107 **Metavivianite**, add "compare **Metakoettigite**"
107 **Mgriite**, add **68**, 280–281 (1983)
108 **Miharaite**, formula should be $PbCu_4FeBiS_6$
108 **Minrecordite**, add **68**, 281 (1983)
109 **Mixite**, add "Mixite group"
109 **Mohite**, add **68**, 281 (1983)
109 **Mohsite**, add **68**, 474 (1983)
109 **Molybdofornacite**, $Pb_2Cu[(As,P)O_4][(Mo,Cr)O_4](OH)$, mon., light green, compare **Fornacite**, **Vauquelinite**
110 **Molybdophyllite**, change hex. to trig.
110 **Monazite-(Nd)**, $(Nd,La,Ce)PO_4$, mon., **68**, 849 (1983)
110 **Moncheite**, change hex. to trig.
111 **Mooreite**, formula $(Mg,Zn,Mn)_{15}(SO_4)_2(OH)_{26}\cdot 8H_2O$, add **68**, 474 (1983)

112 **Mountkeithite**, formula $(Mg,Ni)_{11}(Fe^{+3},Cr,Al)_3(OH)_{24}(SO_4,CO_3)_{2.5}\cdot 11H_2O$

112 **Mundrabillaite**, $(NH_4)_2Ca(HPO_4)_2\cdot H_2O$, mon., Mineral. Mag. **47**, 80–81 (1983)

112 **Musgravite**, $(Mg,Fe^{+2},Zn)_2Al_6BeO_{12}$, trig., green, compare **Pehrmanite**

113 **Nabaphite**, $NaBaPO_4$, cub., compare **Nastrophite**, **68**, 643–644 (1983)

113 **Namuwite**, add **68**, 281 (1983)

114 **Nastrophite**, add "compare **Nabaphite**"

114 **Natanite**, add **67**, 1077 (1982)

114 **Natrite**, add **68**, 281–282 (1983)

114 **Natrobistantite**, $(Na,Cs)Bi(Ta,Nb,Sb)_4O_{12}$, cub., bluish- to yellowish-green, **Pyrochlore** group, compare **Cesstibtantite**

114 **Natrodufrenite**, $Na(Fe^{+3},Fe^{+2})(Fe^{+3},Al)_5(PO_4)_4(OH)_6\cdot 2H_2O$, mon., bronze-green, compare **Dufrenite**, **Burangaite**

115 **Neltnerite**, add **68**, 282 (1983)

115 **Niahite**, $(NH_4)(Mn^{+2},Mg,Ca)PO_4\cdot H_2O$, orth., pale orange, Mineralog. Mag. **47**, 79–88 (1983)

116 **Niggliite**, add "**Nickeline** group"

117 **Niobozirconolite**, change 1965 to 1961

117 **Niocalite**, $Ca_{14}Nb_2(Si_2O_7)_4O_6F_2$, mon.

117 **Nolanite**, change formula to $(V^{+3},Fe^{+2},Fe^{+3},Ti)_{10}O_{14}(OH)_2$, add **68**, 833–839 (1983)

119 **Ohmilite**, $Sr_3(Ti,Fe^{+3})(Si_2O_6)_2(O,OH)\cdot 2\text{–}3H_2O$, mon., pink, **68**, 811–817 (1983)

119 The order should be **Ojuelaite**, **Okanoganite**, **Okenite**, **Oldhamite**

119 **Okenite**, change formula to $Ca_{10}Si_{18}O_{46}\cdot 18H_2O$, add **68**, 614–622 (1983)

120 **Orickite**, near $2CuFeS_2\cdot H_2O$, hex., brass-yellow, **68**, 245–254 (1983)

122 **Oursinite**, $(Co,Mg)(UO_2)_2Si_2O_7\cdot 6H_2O$, orth., pale yellow

122 **Overite**, add "**Overite** group"

123 **Parachrysotile**, add "polymorph. with **Orthochrysotile**"

125 **Paravauxite**, add "**Paravauxite** group"

125 **Parisite**, change hex. to trig.

126 **Pehrmanite**, change formula to $(Fe^{+2},Zn,Mg)_2Al_6BeO_{12}$, add "compare **Musgravite**"

126 **Peisleyite**, $Na_3Al_{16}(SO_4)_2(PO_4)_{10}(OH)_{17}\cdot 20H_2O$, mon., **68**, 849–850 (1983)

127 **Petersite**, $(Y,Ce,Nd,Ca)Cu_6(PO_4)_3(OH)_6\cdot 3H_2O$, hex., yellow-green, **Mixite** group, **67**, 1039–1042 (1982)

128 **Phaunouxite**, $Ca_3(AsO_4)_2\cdot 11H_2O$, tric., **68**, 850 (1983)

129 **Pilsenite**, Bi_4Te_3, trig.

131 **Plumbotellurite**, add "dimorph. with **Fairbankite**"

131 **Posnjakite**, delete "trimorph. with **Langite** and **Wroewolfeite**"

132 **Preisingerite**, add "compare **Schumacherite**"

133 **Pumpellyite**, add "**Pumpellyite** group"

133 **Pumpellyite-(Mn)**, add "**Pumpellyite** group"

135 **Raite**, change formula to $Na_4Mn_3Si_8(O,OH)_{24}\cdot 8\text{–}10H_2O$ (?)

135 **Ramdohrite**, change formula to $Pb_6Ag_3Sb_{11}S_{24}$, change orth. to mon., twinned

136 **Rayite**, $(Ag,Tl)_2Pb_6Sb_8S_{21}$, mon., compare **Semseyite**

136 **Rebulite**, $Tl_5Sb_5As_8S_{22}$, mon., **68**, 644 (1983)

136 **Reinhardbraunsite**, $Ca_5(SiO_4)_2(OH,F)_2$, mon.

137 **Revdite**, add **67**, 1076 (1982)

137 **Rhodplumsite**, $Pb_2Rh_3S_2$, trig., compare **Shandite**

138 **Richelsdorfite**, $Ca_2Cu_5Sb(AsO_4)_4Cl(OH)_6\cdot 6H_2O$, mon., blue

138 **Ringwoodite**, change "dimorph. with **Forsterite**" to "trimorph. with **Forsterite** and **Wadsleyite**"

139 **Roggianite**, change formula to $Ca_8Al_8Si_{16}O_{44}(OH)_{16}\cdot 13H_2O$, add **68**, 852 (1983)

139 **Rokühnite**, $Fe^{+2}Cl_2\cdot 2H_2O$, mon., **66**, 219 (1981)

139 **Romanechite**, change orth. to mon.

140 **Rostite**, compare **Khademite**

144 **Sayrite**, $Pb(UO_2)_5O_6(OH)_2\cdot 4H_2O$, mon., yellowish- to reddish-orange

146 **Scholzite**, change mon., ps. orth. to orth.

146 **Schumacherite**, $Bi_3[(V,As,P)O_4]_2O(OH)$, tric., yellow, compare **Preisingerite**

147 **Searlesite**, change reference to **61**, 123–129 (1976)

147 **Segelerite**, add "**Overite** group"

147 **Semseyite**, add "compare **Rayite**"

148 **Shafranovskite**, $(Na,K)_6(Mn^{+2},Fe^{+2})_3Si_9O_{24}\cdot 6H_2O$, trig., olive-green to yellow-green, **68**, 644 (1983)

148 change **Shahovite** to **Shakhovite**, mon., change formula to $Hg_4Sb(OH)_3O_3$

148 **Shandite**, add "compare **Rhodplumsite**"

149 **Shuiskite**, add "**Pumpellyite** group"

149 **Sidorenkite**, add "compare **Bonshtedtite**"

149 **Sigloite**, add "**Paravauxite** group"

149 **Sillenite**, change formula to $Bi_{12}SiO_{20}$ and delete "dimorph. with **Bismite**"

150 **Simonite**, $TlHgAs_3S_6$, mon., red

152 **Sopcheite**, add **68**, 472 (1983)

152 **Sosedkoite**, $(K,Na)_5Al_2(Ta,Nb)_{22}O_{60}$, orth., **68**, 644 (1983)

153 **Spertiniite** should follow **Sperrylite**

153 **Srilankite**, $(Ti,Zr)O_2$, orth., blackish-brown

153 **Stanleyite**, $VOSO_4\cdot 6H_2O$, orth., deep blue, **68**, 644–645 (1983)

154 **Staurolite**, change orth. to mon., ps. orth.

154 **Steacyite**, add **68**, 472 (1983)

157 **Sulfoborite**, change formula to $Mg_3B_2(SO_4)(OH)_8(OH,F)_2$, add **68**, 255–261 (1983)

157 **Sulphotsumoite** should follow **Sulphohalite**

157 **Surinamite**, add **68**, 804–810 (1983)

158 **Suzukiite**, correct spelling of **Haradaite**, add **68**, 282 (1983)

158 **Sveite**, add **67**, 1076 (1982)

158 Svetlozarite = twinned **Dachiardite**, Mineralog. Mag. **46**, 157–161 (1982)

158 **Symplesite**, add "compare **Metakoettigite**"

158 **Synadelphite**, change orth. to tric., ps. orth.

158 **Synchysite**, change hex. to ps. hex.

159 **Synchysite-(Nd)**, change hex. to ps. hex.

160 Taaffeite-9R = **Musgravite**

161 **Tantite**, Ta_2O_5, tric. (?)

161 Taprobanite = **Taaffeite**, **67**, 1076 (1982)

161 **Taramellite**, change formula to $Ba_4(Fe^{+3},Ti,Fe^{+2},Mg,V^{+3})_4Si_8B_2O_{29}Cl$

162 **Tengerite**, change tet.(?) to orth.

162 **Terskite**, $Na_4ZrSi_6O_{15}(OH)_2\cdot H_2O$, orth., ps. tet., colorless to pale lilac

163 Texasite, change 159 to 169

163 **Theisite**, add **68**, 282 (1983)

165 **Tobelite**, $(NH_4,K)Al_2(Si_3Al)O_{10}(OH)_2$, mon., **Mica** group, **68**, 850 (1983)

166 **Toernebohmite**, $(Ce,La)_2Al(SiO_4)_2(OH)$, mon., **67**, 1021–1028 (1982)

166 **Tolovkite**, add **67**, 1076–1077 (1982)

166 **Tombarthite**, change 1960 to 1969

166 **Torreyite**, $(Mg,Mn)_9Zn_4(SO_4)_3(OH)_{22}\cdot 8H_2O$, mon., compare **Lawsonbauerite**, **34**, 589–595 (1949), **67**, 1033 (1982)

167 **Triangulite**, $Al_3(UO_2)_4(PO_4)_4(OH)_5\cdot 5H_2O$, tric., yellow

169 **Tyuyamunite**, add "compare **Margaritasite**"

171 **Uranosilite**, $U^{+6}Si_2O_{17}$, orth., yellowish

171 **Urvantsevite**, misspelled

171 **Ushkovite**, $MgFe_2^{+3}(PO_4)?_2(OH)_2\cdot 8H_2O$, tric., yellowish to orange, **Paravauxite** group

173 **Vanmeersscheite**, add **67**, 1077 (1982)

174 **Vauquelinite**, add "compare **Molybdofornacite**"

175 **Vishnevite**, formula should be $(Na,Ca,K)_6(Si,Al)_{12}O_{24}[(SO_4),(CO_3),Cl_2]_{2-4}\cdot nH_2O$

175 **Vismirnovite**, add **67**, 1079 (1982)

176 **Vozhminite**, $(Ni,Co)_4(As,Sb)S_2$, hex., **68**, 645 (1983)

176 **Vuorelainenite**, add **68**, 472–473 (1983)

177 **Wadsleyite**, beta-$(Mg,Fe^{+2})_2SiO_4$, orth., trimorph. with **Forsterite** and **Ringwoodite**, Can. Mineral. **21**, 29–35 (1983)

177 **Walpurgite**, add **68**, 852 (1983)

178 Wehrlite = mixt. of **Pilsenite** plus **Hessite**

179 **Wicksite**, add **67**, 1077–1078 (1982)

179 **Wilcoxite**, $MgAl(SO_4)_2F\cdot 18H_2O$, tric., Mineralog. Mag. **47**, 37–40 (1983)

179 **Wilhelmvierlingite**, $CaMn^{+2}Fe^{+3}(PO_4)_2(OH)\cdot 2H_2O$, orth., **Overite** group

182 **Yafsoanite**, add **68**, 282–283 (1983)

184 **Zakharovite**, $Na_4Mn_3^{+2}Si_{10}O_{24}(OH)_6\cdot 6H_2O$, trig.

184 **Zhonghuacerite**, add **67**, 1078 (1982)

187 **Aenigmatite Group**, add Cr^{+3} to B elements, add **Krinovite**

191 **Cobaltite Group**, Hollingworthite misspelled

191 **Crandallite Group**, add **Florencite-(La)**, add La to A elements

191 **Crichtonite Group**, add **Lindsleyite**, **Mathiasite**, add to A elements Ba, K; add to B elements Zr, Fe^{+2}, V

194 **Hydrotalcite Group**, add $\cdot 4H_2O$ to formula given

194 **Kieserite Group**, add **Dwornikite**, add Ni to M elements

195 **Manasseite Group**, add $\cdot 4H_2O$ to the formula given

196 **Mica Group**, add **Ferri-annite** and **Tobelite**

196 **Mixite Group**, Hexagonal arsenates and phosphates of general formula $ACu_6(XO_4)_3(OH)_6\cdot 3H_2O$, A = Al, Bi, Ca, Nd, Y; X = As, P. Agardite, Goudeyite, Mixite, Petersite

196 **Monazite Group**, add **Monazite-(Nd)**

197 **Nickeline Group**, add **Niggliite**. Add Sn to B elements

197 **Olivine Group**, general formula should be $A^{+2}SiO_4$

197 **Overite Group**, Phosphates of general formula $ABC(PO_4)_2\cdot(2–4)H_2O$; A = Ca,Mn,Zn; B = Mg, Fe^{+2}, Mn^{+2}; C = Fe^{+3}, Al. Orth. Lun'okite, Overite, Segelerite, Wilhelmvierlingite

197 **Paravauxite Group**, Triclinic phosphates of general formula $AB_2(PO_4)_2(OH)_2\cdot 8H_2O$, A = Mg, Fe^{+2}, Mn^{+2}; B = Al, Fe^{+3}, Cr^{+3}. Gordonite, Laueite, Paravauxite, Sigloite, Ushkovite

198 **Pumpellyite Group**, Monoclinic silicates of general formula $Ca_2AB_2(SiO_4)(Si_2O_7)(OH)_2\cdot H_2O$; A = Mg, Mn^{+2}, Fe^{+2}; B = Al, Fe^{+3}, Cr^{+3}. Ferropumpellyite, Julgoldite, Pumpellyite, Pumpellyite-(Mn), Shuiskite

198 **Pyrite Group**, Villamaninite is misspelled

198 **Pyrochlore Group**, add **Calciobetafite**, **Natrobistantite**

198 **Rosasite Group**, **Glaukosphaerite** – change (Co,Ni) to (Cu,Ni)

199 **Rutile Group**, add **Argutite**; add Ge to M elements

199 **Smectite Group**, add **Aliettite**

199 **Sphalerite Group**, add Fe to A elements

200 **Stibiconite Group**, add **Bismutostibiconite**, add Bi and Fe^{+3} to A elements

200 **Tourmaline Group**, add **Chromdravite**

201 **Zeolite Group**, add **Gobbinsite**, delete Svetlozarite