MINERALOGICAL NOTES

MINERALOGICAL MAGAZINE, JUNE 1987, VOL. 51, PP. 327-8

Mineral nomenclature: imogolite

IMOGOLITE was originally inadequately described by Yoshinago and Aomine (1962). During the 1962–1967 period, the Commission on New Minerals and Mineral Names of the International Mineralogical Association (CNMMN) rejected the name imogolite (Hey, 1967). Fleischer (1983) has given imogolite as a variety of allophane. The Nomenclature Committee of the Association Internationale pour l'Etude des Argiles (AIPEA) approved imogolite as a species (Bailey, 1980). In 1986, the CNMMN reversed their original decision and approved that imogolite is a valid species.

Imogolite has a chemical formula of $Al_2SiO_3(OH)_4$. (Cradwick *et al.*, 1972) in contrast to Al_2O_3 , 1.3–2.0SiO_2, 2.5–3.0H₂O for allophane (Wada, 1977). Imogolite has a two dimensional tabular structure with *b* 5.1 Å and *c* 8.4 Å (Cradwick *et al.*, 1972) compared to allophane, which is noncrystalline as shown by powder X-ray diffraction data as follows:

Allophane		Imogolite	
dÅ	I	dÅ	I
		16vb	100
		7.9	70
		5.6	35
		4.4	10
		4.1	10
		3.7	20
3.3vb	100	3.3vb	65
		3.1	5
		2.6	5
2.25vb	30	2.25vb	25

Goodman et al. (1985) show structural differences by nuclear magnetic resonance.

Acknowledgement. Dr E. H. Nickel, vice-chairman of CNMMN, provided advice.

REFERENCES

Bailey, S. W. (1980) Clays Clay Minerals, 28, 75.

Cradwick, P. D. G., Farmer, V. C., Russell, J. D., Masson, C. R., Wada, K., and Yoshinga, N. (1972) *Nature Phys. Sci.* 240, 187-9.

- Fleischer, M. (1983) Glossary of Mineral Species. Mineralogical Record, Tucson, AZ.
- Goodman, B. A., Russell, J. D., Montez, B., Oldfield, E., and Kirkpatrick, R. J. (1985) Phys. Chem. Minerals 12, 342-6.
- Hey, M. H. (1967) Mineral. Mag. 36, 133.
- Wada, K. (1977) Minerals in Soil Environments. Soil Science Society of America, Madison, WI, 603-38.
- Yoshinago, N., and Aomine, S. (1962) Soil Sci. and Plant Nutrition (Japan) 8, 6 and 114. [Abstr. Am. Mineral. 48, 434 (1963)].

KEYWORDS: imogolite, allophane, nomenclature, mineral species.

P. BAYLISS

Department of Geology and Geophysics, University of Calgary, Alberta, Canada T2N 1N4

[Manuscript received 4 August 1986]

© Copyright the Mineralogical Society

Mineral nomenclature: glushinskite

GLUSHINSKITE, $Mg(C_2O_4) \cdot 2H_2O$, an oxalate, was inadequately described by Zhemchuzhnikov and Ginzberg (1960). During the 1962–1967 period, the Commission on New Mineral and Mineral Names of the International Mineralogical Association (CNMMN) rejected the name glushinskite (Hey, 1967). Subsequently, Wilson *et al.* (1980) have described another occurrence. In addition, glushinskite has been found at a new locality on the Island of Rhum in the Inner Hebrides of Scotland. Glushinskite occurs as a weathering product resulting from the activity of crustose lichens on magnesium-rich rocks. In 1986, the CNMMN reversed their original decision and approved that glushinskite is a valid species.

Acknowledgement. Dr E. H. Nickel, vice-chairman of CNMMN, provided advice.

REFERENCES

Hey, M. H. (1976) *Mineral Mag.* **36**, 133. Wilson, M. J., Jonés, D., and Russell, J. D. (1980) Ibid. **43**, 837-40.

MINERALOGICAL NOTES

 Zhemchuzhnikov, Yu. A. and Ginzberg, A. I. (1960) Abstr. Am. Mineral. 47, 1482 (1962); (M.A. 16-555). KEYWORDS: glushinskite, nomenclature, mineral 	PETER BAYLISS Department of Geology and Geophysics, University of Calgary, Alberta, Canada T2N 1N4	
species. M. J. WILSON	[Manuscript received 4 August 1986]	
Macaulay Institute for Soil Research, Craigiebuckler, Aberdeen AB9 2QJ	© Copyright the Mineralogical Society	