

The andersonite is much less common. It occurs as small masses of intergrown, pseudocubic crystals to 3 mm on edge. The crystals are transparent and of a bright yellow-green colour, and exhibit very bright yellow-green fluorescence under long-wave UV light, similar in colour and intensity to that of the schröckingerite aggregates.

The walls of the drive are composed of granite traversed by quartz veinstone carrying minor sulphides. However, much of the tunnel wall is coated with a friable, sandy material, cemented to the underlying rock by gypsum, and the schröckingerite and andersonite are commonly found on this substrate.

Identification of the schröckingerite was carried out by X-ray powder diffractometry. The XRD analysis showed the aggregates to be composed of a mixture of gypsum and schröckingerite. The andersonite was tentatively identified as such following examination by energy-dispersive X-ray analysis. Both schröckingerite and andersonite were subsequently confirmed by X-ray powder diffraction at the British Museum (Natural History) (film numbers 8567F and 8568F respectively).

The andersonite and schröckingerite occur in close association with each other at Geevor. In a few specimens, schröckingerite-gypsum aggregates are observed partially intergrown with andersonite. Other secondary uranium mineralisation occurs along the Peeth Lode. Yellow zippeite-type secondaries are widespread along the tunnel walls. Johannite is also found in the same area and specimens in the possession of the British Museum (Natural History), collected from this location in 1986/87, are associated with a mineral tentatively identified as becquerelite (P. C. Tandy and J. G. Francis, pers. comm.). However, these species are rarely seen in close association with the andersonite and schröckingerite.

Samples of the andersonite and schröckingerite have been lodged with the British Museum (Natural History) and the University Museum, Oxford.

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KEYWORDS: schröckingerite, andersonite, Geevor mine, Cornwall.

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Mineral nomenclature: sulrhodite

THE crystal structure of synthetic Rh₂S₃ was described by Parthé *et al.* (1967) in space group *Pbcn* (60) with *a* 8.462, *b* 5.985, *c* 6.138 Å and *Z* = 4, to a *R* value of 0.069. The Rh atoms occupy a single set of eight atomic positions.

Bowieite (Rh, Ir)₂S₃ described by Desborough and Criddle (1984) has *a* 8.454, *b* 6.002 and *c* 6.121 Å in space group *Pbcn* (60). Bowieite was submitted to the International Mineralogical Association Commission on New Minerals and Mineral Names (CNMMN) on 14 March, 1980. The records show that it was approved (20-0 for the mineral, 19-0-1 abstention for the name) in the CNMMN memorandum dated 21 June, 1980. The delay between approval and publication occasioned by a great deal of extra work on the composition and optics was sanctioned by CNMMN.

Sulrhodite Rh₂S₃ described by Keqiao *et al.* (1983) has *b* 8.493, *c* 5.987 and *a* 6.167 Å in space group *Pnca* (60) similar to PDF 21-1017. The paper was received by *Kexue Tangbao* on July 29, 1981; however, sulrhodite was never submitted to the CNMMN.

The two minerals have an identical end-member formula of Rh₂S₃ and identical crystal structure. Based upon the rule of priority, bowie-

ite has precedence. Therefore, a proposal to discredit sulrhodite in favour of bowieite has been approved by CNMMN in 1990. The end-members of the solid solution series Rh_2S_3 – Ir_2S_3 will be bowieite $(\text{Rh},\text{Ir})_2\text{S}_3$ (Desborough and Criddle, 1984) and kashinite $(\text{Ir},\text{Rh})_2\text{S}_3$ (Begizov *et al.*, 1985).

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KEYWORDS: sulrhodite, bowieite, nomenclature.

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