

## Abstract

# **Richardsollyite, an amazing new mineral species**

A sample recently mined by the Lengenbach Research Association (FGL) turned out to contain a new mineral species that the authors called richardsollyite, to honour the memory of Richard Harrison Solly, a British mineralogist active in the Binn Valley at the dawn of the twentieth century.

Richardsollyite is remarkable in many ways: its chemical formula is very simple,  $\text{PbTlAsS}_3$ , and its crystal structure is new in the world of natural compounds. The new mineral, of which until now two, very different samples have been identified, was found in a As- and Tl-rich dolomite ribbon, in the center of the famous Lengenbach quarry.