

Abstract

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**About Genetic Aspects of the Copper Mineralisation at the Zechstein Basis in the  
Weißwasser Region / Lusatia**

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Abstract

Investigations focussing on the Weißwasser region in Lusatia and application of results from the Foresudetic Monocline provided new aspects concerning the genetic development of the copper deposit at the Zechstein basis.

The very specific situation at Weißwasser was characterised by an occurring Rote Fäule facies above and below the copper mineralisation. Based on recent geochemical investigations increased gold contents could be identified in the transition range between the Rote Fäule and the copper facies zone, as earlier already reported from the Polish deposits by other authors. But, in the case of Weißwasser the gold mineralisation occurs at the top and at the basis of the copper zone.

Regional comparisons showed for Weißwasser that this deposit, as the other copper deposits found in the belt along with the southern border of the previous Zechstein Sea, seem to be bound to an up-domed Upper Mantel.