

## The “Red Section” in Langenlois (Lower Austria): Micromorphology, Stratigraphy and Geological Implications

LIBUŠE SMOLÍKOVÁ\*), PAVEL HAVLÍČEK\*\*), OLDŘICH HOLÁSEK\*\*) & MICHAL VACHEK\*\*\*)

The research area is located NW of Langenlois/Lower Austria at the “Schenkenbichl” hill, where an outcrop was opened in July 2007 for the establishment of a new vineyard. An about 5 m thick sequence of slope and aeolian sediments with intervening paleosols resting upon the amphibolite of the Rehberg Formation emerging as bedrock in this otherwise gneiss-dominated region of the Bohemian Massif was investigated. The Pleistocene sediments fill an

old N–S trending walley north of Langenlois and show striking reddish tint typical of Lower Pleistocene plastosols. According to the micromorphology the deposition commenced during Lower Pleistocene (Cromerian, PK X, B/M paleomagnetic inversion) and continued until the Middle Pleistocene – Holsteinian interglacial. The paleosols (after ISSS-ISRIC-FAO 1998 – Nitisols) are of Rotlehm (Rhodic Nitisols) and Braunlehm type (Haplic Nitisols).

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\*) LIBUŠE SMOLÍKOVÁ, Přírodovědecká fakulta Univerzity Karlovy, Ústav geologie a paleontologie, Albertov 6, CZ 12843 Praha – 2, Czech Republic.  
\*\*) PAVEL HAVLÍČEK, OLDŘICH HOLÁSEK, Česká geologická služba, Klárov 3, CZ 11821 Praha – 1, Czech Republic.  
avel.havlicek@geology.cz; oldrich.holasek@geology.cz.  
\*\*\*) MICHAL VACHEK, Ministerstvo zemědělství – Pozemkový úřad Hodonín, Koupelní 19, 69501 Hodonín, Czech Republic.  
Michal.Vachek@mze.cz.

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Autor(en)/Author(s): Smolikova Libuse, Havlicek Pavel, Holasek Oldrich, Vachek Michal

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