World-Class VMS deposits of the Southern Urals
4-7 August 2014

Some preliminary information about the nature of the Southern Urals, its geology and VMS deposits situated there you can find at the website of the Ufa Geological Institute of RAS. 
[http://www2.anrb.ru/geol/MinUrals/report01.htm](http://www2.anrb.ru/geol/MinUrals/report01.htm)

Duration 4-5 days + travels
Tour starts August 4/08/2014 from Ufa
Period: pre-congress
Minimum/maximum number of participants: 9/11 (it is under consideration).
Accommodation: at hotels
Cost is under consideration
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Motivation:
The nice opportunity to obtain a whole impression about geological position, structure and composition of the unique VMS deposits in the Southern Urals and host island-arc volcanic formations of the Devonian Magnitogorsk zone.

![Simplified geological map of the Southern Urals with positions of the most ore deposits (from R. Herrington, 2006). The white rectangle is an area of the geological excursion.](image)

**4 August.** Start from Ufa to Sibay. Along the road we will have few short stops for overview of the Riphean complexes, mélange of the Main Uralian Fault zone and volcanic rocks of the Magnitogorsk zone. Tonight stop at the hotel. Diner and introduction talk “VMS deposits of the Southern Urals”.

**5 August.** Visit to the Yubileyny deposit open pit. The Yubileyny deposit comprises about 110 Mt of copper-zinc ore. It is situated among the volcanics of the Baymak-Buribay basalt-andesite-dacite-rhyolite (D₁) suite. After lunch the examination of the Baymak-Buribay Formation - the lower part of the Magnotogorsk island-arc volcanic sequence along the Tanalyk river.
6 August. Overlook of the Kamagan deposit open pit. The Kamagan deposit comprises about 5 Mt of ore. This is only a par of the big Sibay deposit. The host rocks are basalt breccias and hyaloclastites of Karamalytash bi-modal basalt-rhyolite formation (D_{2ef}). Overview of Karamalytash volcanic sequence along the valley of Karagayly Creek. The departure from Sibay to Uchaly.

7 August. Overview of the Uchaly deposit open pit. The Uchaly deposit comprises more than 100 Mt of ore. The main ore-body occurs among the acid effusive-extrusive rocks at the eastern wall of quarry. The basalt pillow lavas overlying the ores occur at the western side of quarry. The ore-body is folded into a meridional anticline. Visit to the Uchaly underground mine and examination of the ore body. After this, a visit to the Zapadno-Ozerny deposit open pit and overlook of the ore-body № 5 occurring among the subvolcanic andesites at the upper level of deposits.

7 August. Departure from Uchaly to Ekaterinburg with a short stop in Miass and visit to the Ilmeny State Reserve Mineralogical Museum.

The complete information will be announced in the second circular