

M1248

**Isheyev**

~57°37'N; 56°20'E

Bashkortostan, Russia

Found 2003, October

Carbonaceous chondrite, bencubbinite

One stone, weighting 16.7 kg, was found by a tractor driver in a field during harvest carrying in the Ishimbai region of Bashkortostan, close to the Isheyev village. A small piece of the meteorite was issued to the Meteorite Committee of Russian Academy of Sciences by Kazakov D.A., and Polozkov A.G., September 2004. Mineralogy and classification (Ivanova M.A. *Vernad.*, Ulianov A.A. *MSU*). Fusion crust is well developed, dark brown. The meteorite consist of FeNi metal grains, CC, POP, rare BO chondrules (0.02-1 mm in size), chondrules fragments, CAIs, and matrix lumps. FeNi metal comprises from 50 to 70 vol%, and contains 4.2-8.4 wt% Ni, 0.2-0.5 wt% Co, and 0.03-0.6 wt% Cr; Co/Ni ratio is approximately solar. CC chondrules don't contain any FeNi metal grains, they are Mg-rich, and consist of pyroxene-rich cryptocrystalline material. Olivine, Fa<sub>2.5</sub>, rare FeO-rich olivines, Fa<sub>10-38</sub>; pyroxene, Fs<sub>2.1</sub>Wo<sub>1.7</sub>, FeO-rich pyroxene, Fs<sub>8-12</sub>Wo<sub>0.8-1.8</sub>; troilite is Cr-rich, 2.5 wt% Cr. INAA data for a 20 mg chip: 2.74 wt% Ni; 717 ppm Co; 2608 ppm Cr, 8.2 ppm Sc, and 1.59 ppm Ir. Petrological type 3; shock stage, S1; weathering grade, W1. Specimens: a type specimen, 24.3 g, and two sections, *Vernad.*; main mass with anonymous finder.