

The role of Abu Raykhan Al-Biruni in the History of Development of Mineralogy, Thermobarogeochemistry, Geology, Astronomy, Geography and other Sciences

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Abu Raykhan ibn Mukhammed ibn Akhmed al-Biruni was born on September 4 in 973 (in 342 Khidji year by Moslem calendar) in the town of Kit - the ancient capital of Khorezm. The discoveries, which was made by him, had defined for 400-500 years such reaching of sciences in Europe! He suggested a heliocentric system of driving of the Earth, definition of coordinates of an occurrence of plant on a terrestrial surface of the Earth, measurement with a high degree of an exactitude radiuses of the Earth, prediction of a possibility existents large continent (America!) in the west from Europe and so.

The merit is extremely great of the Biruniy in mineralogy and geology. He was the first, who offered out and carried out the determinations of hardness of minerals and determination of specific weights. Biruniy describes rotors 300 minerals and their variations in his "Book of collection reductions for Knowledge precions stones" or "Mineralogy".

He was the first, who saw gas-liquid inclusions in gems-ancient fluids, which took part in formation of mountain crystals, tophaz, amethysts, sapphires, ambers and other minerals. Later Sorby, Ermakov, Roedder and other scientists based formation of new science - "Thermobarochemistry", which is very significance in the Twentieth Century.

Uzbekistan regardly keeps the memory about Abu Raykhan al-Biruniy - the great Khorezmian scientist, genius of the XI century.