

## **RICH IN DIAMONDS KIMBERLITE PIPES - OBJECTS OF DISCOVERIES IN 21CENTURIE.**

TSYGANOV VLADIMIR A. State scientific-production enterprise Aerogeophysica, Moscow, Russia

The executed on several hundreds of kimberlites pipes of Russia analysis of correlation between kimberlite's indicator properties and concentration of diamonds within pipes allowed to make the important conclusions. It's proved, that a magnetization of kimberlites and the concentrations of garnet and ilmenite in them are inversely proportional to the concentration of diamonds in pipes. This fact as well as data on a history and methods of diamonds deposits exploration had have allowed us to publish in abstracts of 6-th International Kimberlite Conference the supposition that main rich diamonds deposits of the World are not detected yet. The same statistical data made it possible to detect specific indicator properties (petrophysical, geochemical, mineralogical) of kimberlites with the high contents of diamonds, and to make more clear the technology of their exploration by geophysical and geological methods. The recent discoveries in Siberia proved our suppositions completely. Within this region the new rich diamonds deposits with the same indicator properties as we had have assumed were discovered. These results further allow to assume that there are not detected yet deposits of this type (rich of diamonds and weak contrasting) in other regions of the World. Such deposits, most likely, located within continents where the high quality of diamonds from placers does not correspond to quality of supposed primary sources (Congo, Angola, Brazil, India etc.).