

### **Complex Approach to Diverse in Scale Zoning of Territories According to the Degree of Perspectiveness on the Detection of Diamondiferous Kimberlites**

ZINTCHOUK, N. N., YaGEER&D CNIGRI, ALROSA Co. Ltd.,  
Mirny, Sakha (Yakutia), Russia

We applied a complex approach during diverse in scale zoning of the Siberian Platform. So far as diamondiferous kimberlites occur only within Archean cratons, such ones were revealed on this platform. Then on the results of diamond investigation a part of the platform was delineated with prevalence of octahedra, rhombic dodecahedra and transitive between them forms, typical for rich kimberlite bodies, which tend to the revealed Archean cratons.

Such zoning of the platform was carried out on indicator minerals of diamonds, in the result of which the main feature was revealed – the presence of pyropes of diamond association only on the revealed Archean cratons.

Average in scale zoning was carried out within already revealed Archean cratons, where it is possible to establish much smaller ovoid-circular structures within their composition. They are considered as possible diamondiferous kimberlite fields. Additionally, by the ratio of diamonds of individual morphogenetic groups, forming definite morphological associations and carried onto lithologic-paleogeographic map, we subdivide the forecast kimberlite fields into areas perspective for the discovery of rich and poor primary sources.

The same kind of zoning is carried out on the content of relative quantity of diamond association garnets. All these together make it possible to more reliably reveal the areas perspective on the discovery of diamondiferous kimberlite pipes.