SCIENTIFIC REPORT
for 2019-2020 activity of the Commission on Placer Deposits (COPD)

Main events in 2019-2020

1. Meetings and Conferences
   The main event of the activity was the preparation and holding of the Meeting on the geology of Placer Deposits and Weathering Crusts, which was planned to be held on the basis of the Geological Faculty of Voronezh University in September 2020. Unfortunately, due to the situation with the COVID-19 infection, the meeting was postponed to 2021.
   In addition, breakout sessions and individual reports on the geology of placers were made at the following conferences, which in 2020 were held on-line in Yekaterinburg and Miass (Ural Branch of the Russian Academy of Sciences), Novosibirsk (Siberian Branch of the Russian Academy of Sciences) and Moscow (Moscow State University, Moscow Geological Exploration University, IGEM RAS).
   Four PhD thesis in geology of placer deposits and weathering crusts were defended.

2. Researches
   Main research directions:
   1. Determination of the main factors of formation of placers and deposits of weathering crusts.
   4. Study of technogenic-mineral formations and processes of changes in useful components in the zone of technogenesis.
Evolutionary transformation of ore-placer system of Vagran cluster (North Urals). Stages: (a) Late Mesozoic–Early Cenozoic peneplanation stage; (b) the beginning of tectonic activation (Oligocene–Pliocene); (c) the formation of the modern relief (Pleistocene–Holocene). (1) weathering crust; (2) metamorphosed deposits of fold complex; (3) alluvial deposits; (4) ESD; (5) inferred outcrops of placer-forming bedrock sources; (6) directions of transport of detrital material; (7) streams within ESD; (8) modern streams; (9) inferred zone of silver–gold mineralization at the modern erosion level.

3. Selected publications


Y.S. Suiekipayev, Y.M. Sapargaliyev, A.V. Dolgopolova, F. Pirajno, R. Seltmann, S.V. Khromykh, G.K. Bekenova, P.D. Kotler, M.M. Kravchenko, A.Zh. Azelkhanov. Mineralogy, geochemistry and U-Pb zircon age of the Karaotkel Ti-Zr placer deposit, Eastern Kazakhstan and its genetic link to the Karaotkel-Preobrazhenka intrusion. Ore Geology Reviews, Volume 131,
Forthcoming events

The 16-th International Conference on “Placer Deposits and Weathered Crusts: research, development and ecology” will be held in the Voronezh State University (Voronezh, Russia) in September, 2021, under the auspices of Russian Academy of Science and the IAGOD Commission on the Placer Deposits (COPD). Chairman of Program Committee academician N.S.Bortnikov.

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Secretary: Dr. Yertlek Suiekipayev, Altai Geologic and Ecologic Institute” LLC, D. Serikbayev East Kazakhstan State Technical University, Ust-Kamenogorsk, Kazakhstan.