



The Anchor House,
Research on Rare Earth Elements

PROGRAM of
XXXII International Conference on
"Alkaline Magmatism of the Earth and related
strategic metal deposits"
7-14 August 2015
Apatity, Russia

With financial support of RSF & RFBR RAS

09.08.2015 Sunday
Morning session
Convener: Garanin, Viktor.

- 9:30 Kamenetsky, Vadim. New models for kimberlite parental melts: composition, temperature, ascent and emplacement.

10:10 Kopylova, Maya. The effect of emplacement style on the mineralogy of kimberlites and their carbonaceous and vaporate xenoliths.

10:30 Nosova, Anna. Major, minor, and trace element and oxygen isotopic composition of olivine from kimberlite of the Arkhangelsk diamond province (Russia).

10:50 Coffee break

- 11:05 Kargin, Alexey. Metasomatic processes in peridotite xenoliths, Grib pipe, Arkhangelsk province, Russia.

11:25 Mogahed, Moustafa. Compositional variation in pyroxenes and amphiboles of the Abu Khruq ring complex, Egypt.

11:45 Cansu, Zeynep. Geochemistry of basanite dyke swarms, South Anatolia (Kahramanmaraş/Turkey).

12:05 Sitnikova, Maria. REE Mineralogy of Lofdal carbonatites, Namibia.

Evening session

- 14:00 Jones, Adrian. Deep carbon connection to long-term enrichment of rare elements in the Earth's crust.

14:40 Broom-Fendley, Sam. HREE-enrichment in late-stage apatite from carbonatites; Comparison of apatite from the Songwe, Tundulu and Kangankunde carbonatites, Malawi.

15:00 Zozulya, Dmitry. Sr-Nd isotope data for carbonatite from UHP Tromso nappe, Northern Scandinavian Caledonides

15:20 Schonwandt, Hans. New discoveries of REE-mineralization in the Ilimaussaq intrusion, South Greenland.

15:40 Coffee break

16:05 Săbău, Gavril. HFSE and REE vein mineralization associated with the Ditrău Alkaline Massif.

16:25 Ermolaeva, Vera. Leaching of rare-earth and radioactive elements from lovozerite lujavrite (Lovozero alkaline massif, Kola Peninsula).

16:45 Krasnova, Natalia. Use of RHA language for classifying rocks based on their mineral composition.

17:05 Coffee break and Poster presentations (see list of poster presentations below)

10.08.2015 Monday

Morning session

Convener: Zaitsev, Anatoly.

- 9:30 Williams-Jones, Anthony. Rare Earth Elements in Hot Water.
- 10:10 Ryabchikov, Igor. Physical-chemical parameters of mantle sources of alkaline and kimberlite magmas.
- 10:30 Garanin, Viktor. Natural diamonds in space and time.
- 10:50 Borisov, Alexander. Effects of sodium on ferric/ferrous ratio in silicate melts: an experimental study.
- 11:10 **Coffee break**
- 11:25 Sharygin, Victor. Silicate-carbonate liquid immiscibility in melilitolite from Pian di Celle volcano (Umbria, Italy).
- 11:45 Isakova, Aleksandra. The first results of a melt inclusion study of phonolite dykes from the Kovdor massif (Kola Peninsula).
- 12:05 Solovova, Irina. Composition and thermodynamic parameters of a metasomatic agent beneath east Antarctica from the results of an inclusion study.
- 12:25 Sekisova, Viktoriia. Silicate-salt inclusions in diopside of Oldoinyo Lengai ijolites, Tanzania.
- 12:45 **Lunch**

Evening session

Convener: Ryabchikov, Igor.

- 14:15 Cox, Clinton Critical factors in the rare earth market.
- 14:35 Zaitsev, Anatoly. Magnetite-hosted multiphase inclusions in phoscorites and carbonatites of the Kovdor complex, Kola alkaline province.
- 14:55 Borutsky, Boris. On metasomatic nature of the Khibiny apatite-nepheline deposits
- 15:15 **Coffee break**
- 15:30 Starikova, Anastasiya. Ba-dominant fluoroaluminates from the Katugin rare-metal deposit (Transbaikalia, Russia): chemical and Raman data.
- 15:50 Vladynkin, Nikolay. Petrology, geochemistry and composition of rare-metal alkaline rocks in the South Gobi Desert, Mongolia.
- 16:10 Dokuchits, Emilia. Rare earth elements in charoite rocks, Murun complex.
- 16:30 Kogarko, Lia. Round table. Future perspectives of the conference on "Alkaline Magmatism of the Earth and related strategic metal deposits".

20:00

Conference dinner at Izovela complex

Poster presentations list

- 1 Afanasyev, Valentin. Chromites from Late Vendian potassic alkaline volcanics of the Olenek uplift (Northeastern Siberian craton).
- 2 Filina, Maria. The chemical composition of lamprophyllite group minerals and crystal structure of a new high-F barytolamprophyllite from an agpaitic dyke, area "Mokhnatye Roga" (Kola Peninsula).
- 3 Galli, Andrea. Mantle carbonatites or crustal metacarbonates? Challenge from carbonate-dykes in the Ivrea-Verbano Zone (NW Italy / S Switzerland).
- 4 Isakova, Aleksandra. New data on the genesis of potassic lamprophyre from the Tomtor massif based on melt inclusions.
- 5 Isakova, Aleksandra. New data about the genesis of potassic lamprophyre of Tomtor massif based on melt inclusions.
- 6 Kuzmenkova, Oksana. Monzogabbro "Uborok" of the Southeast of Belarus (Voronezh crystalline massif).
- 7 Lyalina, Lvudmila. Rare beryllium silicates - meliphanite and leucophanite - from nepheline-feldspar pegmatite, Sakharjok massif, Kola Peninsula.
- 8 Migdisova, Natalia. Native lamproitic melts and their evolution: A study of subglacial glasses from Gaussberg volcano (West Antarctica).
- 9 Nivin, Valentin. Combustible gas presence in the Lovozero rare-metal deposit (NW Russia) and gas safety control in mining.
- 10 Puha, Vyacheslav. Temporal variations of hydrogen emission in the Lovozero rare-metal deposit (Kola Peninsula, NW Russia).
- 11 Sarifakioglu, Ender. Findings related to the project of Turkey Ophiolite Inventory of the Geological Survey of Turkey.
- 12 Simakin, Alexander. On the origin of high potassium magmas in subduction zones.
- 13 Skoda, Radek. Characterisation of zirconolite from alkaline pegmatites of the Larvik plutonic complex, South Norway.
- 14 Smirnova, Tatiana. Specific features of eudialyte decomposition in oxalic acid.
- 15 Sokolova, Ekaterina. Formation conditions of potassium mafic rocks from Yllymakh, Ryabinovy and Inagli Massifs, Central Aldan.
- 16 Soroka, Elena. Magnesite mineralization of the Safianovskoe massive sulfide deposit (Middle Urals, Russia).
- 17 Tolstov, Alexander. Problems of yttrium-bearing complex Nb-REE-Sc ores of the Tomtor deposit.
- 18 Tolstykh, Maria. Adakites: melts or rocks?
- 19 Tret'yachenko, Vladimir. Formation typification of Early-Hercynian volcanic complexes in Archangelsk kimberlite-picrite province.
- 20 Wolkowicz, Stanislaw. REE and trace elements in rocks of the Catanda carbonatite massif (W. Angola).
- 21 Echigo, Takuya. Crystal chemistry and genesis of organic minerals: the interaction between organic molecules and heavy metals in hydrothermal environments.
- 22 Nedosekova, Irina. Rb-Sr, Sm-Nd, Pb-Pb, Lu-Hf isotope systems as a signature of sources of alkaline-carbonatite magmatism (by the example of Urals and Timan complexes, Russia).
- 23 Zhirova, Anzhela. Magnetoelastic effects in the magnetite-calcite rocks of the Kovdor massif