

CONFERENCE PLAN

Russian Mineralogical Society
Saint Petersburg State Mining Institute (Technical University)



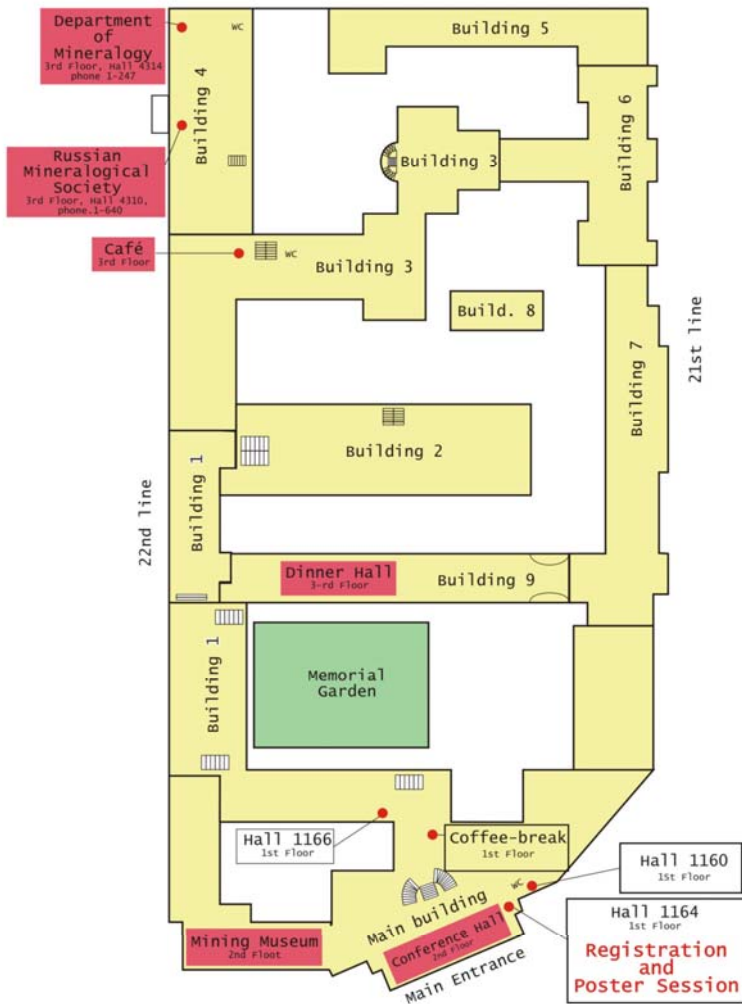
RMS Annual Session

**Ontogeny of minerals applied to scientific
and industrial uses
(to the 100 year anniversary of Prof. Dmitry Grigoriev)**

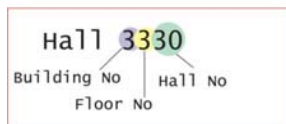
6-8 October 2009

Scientific Programme

**SAINT PETERSBURG
2009**



Leutenant Schmidt Embankment



Dear colleagues!

The Presidium of the Russian Mineralogical Society and the Saint Petersburg State Mining Institute (Technical University) invite you to attend the Annual Session of the RMS dedicated to the 100 year anniversary of Prof. Dmitry Grigoriev.

Registration: 6th October, 9.00 to 15:00, Hall 1164 (by the Main Entrance).

Opening Ceremony – 6th October, 10:00.

Closing Ceremony – 8th October, 14:00.

Duration of oral presentations: 35 minutes (plenary session), 15 minutes (standard session), questions – 5 minutes. The names of principal speakers are underlined in the programme.

Posters must be placed in the Hall 1164 on 7th October during the dinner break. Poster session is open on 7th October from 17:00 to 18:00.

PROGRAMME

6th October, Tuesday

10.00-16.20. Conference Hall

Convenors: **D.V. Rundqvist, Yu.B. Marin**

Welcome talks: Rektor of SPMI Prof. **V. S. Litvinenko**, RMS
President Prof. **D. V. Rundqvist**.

10.50. **Results of the RMS contests 2009.**

11.10. *Rundqvist D.V. (Moscow)*

Ontogenesis and phylogenesis in geology and the global laws of geological development.

12.00-12.20. Coffee Break

12.20. *Yushkin N.P. (Syktyvkar)*

Ontogeny of minerals and evolution of the mineral world.

13.00. *Bulakh A. (Saint Petersburg)*

Minerals in nature and "on paper".

13.40. **Celebration of discoverers of new minerals.**

14.00-15.00. Dinner

15.00. *Popov V.A. (Miass)*

Ontogeny of minerals and its importance for applied and basic research.

15.40. *Petrov T.G., Krasnova N.I., Shuyskiy A.V. (Saint Petersburg)*

Geologists should know the ontogeny of minerals.

16.20-16.40. Coffee Break

17.00. **The visiting of the grave of the Prof. D. P. Grigoriev.**

7th October, Wednesday

Session 1: History, current state and prospects of mineral ontogeny applied to problems of geochemistry, crystallography, mineralogy, lithology, petrology and economic geology.

10.00-12.00. Hall 1160

Convenors: **M.A. Ivanov, E.M. Spiridonov**

10.00. ***Rozhdestvina V.I. (Blagoveshchensk)***

Ontogeny of precious metals.

10.25. ***Spiridonov E.M. (Moscow)***

Metacrystals of Pd-Pt-Ag-Au-Te minerals in ores of Norilsk.

10.50. ***Mochalov A.G. (Saint Petersburg)***

Genesis of platinum group minerals of the gabbro–pyroxenite–dunite plutonic complexes in the Koryak Highland.

11.15. ***Krinov D.I. (Moscow)***

Peculiarities of mineral ontogeny in submarine hydrothermal systems.

11.40. ***Azarova Yu.V., Krinov D.I. (Moscow)***

Ontogenic analysis of proportions of sulfides in rocks of Khibiny massif with regard to processes of sulfide formation.

12.00-12.20. Coffee Break

12.20. ***Spiridonov E.M., Filimonov S.V., Bryzgalov I.A., Guseva E.V., Korotayeva N.N., Krivitskaya N.N., Yapaskurt V.O. (Moscow)***

Zonar structure of fahlore group minerals as a criteria for distinction between plutogenic, volcanogenic-plutonogenic and volcanogenic hydrothermal gold deposits.

12.45. ***Belogub E.V. (Miass)***

Ontogeny of supergene sulfides from oxidation zones.

13.05. ***Kholodnov V.V. (Ekaterinburg)***

Ontogeny of halogen-bearing minerals as an indicator of fluid regimes and mineralization of super subduction magmatism of the Urals.

13.25. Samokhina I.D., *Vorontsova T.Yu.*, *Vakhromeeva L.D.*,
Glyanko T.I. (Irkutsk)

Section of mineral ontogeny in the mineralogical museum of ISTU for educational process.

13.40. *Granovskaya N.V. (Rostov on Don)*

Belorechensk baryte deposit: A training ground for ontogenic researches.

14.00-15.00. Dinner

Session 1: History, current state and prospects of mineral ontogeny applied to problems of geochemistry, crystallography, mineralogy, lithology, petrology and economic geology.

15.00-16.40. Hall 1160

Convenors: **Yu.L. Voytekhovsky, A.I. Glazov**

15.00. *Smirnova N.L. (Moscow)*

Polygonal surface ontogeny.

15.20. *Voytekhovsky Yu.L. (Apatity)*

Population aspect of crystallomorphology.

15.40. *Titkov S.V. (Moscow)*

Problems of diamond ontogeny.

16.00. *Shafranovskiy G. I.*, *Zinchenko V.N.* (*Saint Petersburg*)

Application of morphological data to ontogenesis of diamonds from Camuananza pipe, NE Angola.

16.20. *Izatulina A.R.*, *Punin Yu.O.*, *Shtukenberg A.G.*, *Golovanova O.A. (Saint Petersburg)*

To the ontogeny of oxalate kidney stones.

16.40-17.00. Coffee Break

17.00. **Posters** (the list is given in the end of the programme).

Hall 1164.

7th October, Wednesday

**Session 3: Ontogeny of minerals as a tool for evaluation
of mineral materials.**

10.00-12.00. Hall 1166

Convenors: **B.I. Pirogov, V.V. Shchiptsov**

10.00. ***Pirogov B.I. (Moscow)***

Ontogeny in technological mineralogy.

10.25. ***Shchiptsov V.V. (Petrozavodsk)***

Special features of mineral genesis and technological properties of industrial minerals depending on scale of deposits.

10.45. ***Danilevskaya L.A., Skamnitskaya L.S. (Petrozavodsk)***

Ontogenic approach to investigations of quartz raw material treatment and forecasting of quartz product quality.

11.05. ***Balitsky V.S., Balitskaya O.V. (Moscow)***

Mechanisms of formation and morphogenetic types of fluid inclusions in crystals of synthetic minerals.

11.25. ***Sorokina E.S., Khomrakh M.V., Balitskaya O.V. (Moscow)***

Using features of inclusions to identify the types of ruby deposits.

11.45. ***Babaeva S.F. (Ufa)***

Regularities of sulfide formation in pyrite deposits of the Southern Urals.

12.00-12.20. Coffee Break

Session: Experimental Mineralogy

12.20-14.00. Hall 1166

Convenors: **A.M. Askhabov, A.E. Glikin**

12.20. ***Balitsky V.S., Balitskaya O.V.. (Moscow)***

Professor Dmitry Pavlovich Grigoriev and the role of ontogenic investigations in creation of highly effective technologies of growing of synthetic quartz and its colored varieties.

12.40. ***Balitskaya O.V., Balitsky V.S. (Moscow)***

Genetic gemology of crystalline and amorphous varieties of silica.

13.00. ***Glikin A.E., Kryuchkova L.Yu., Plotkina Yu.V., Sinay M.Yu., Taratin N.V. (Saint Petersburg)***

To the ontogeny of isomorphic-mixed crystals.

13.20. ***Demina T.V., Mikhailov M.A. (Irkutsk)***

The features of formation of beryl structure compounds in dry media.

13.40. ***Ivanova L.A., Marchuk M.V., Medvedev V.Ya. (Irkutsk)***

Features of morphology of fayalite, formed on various substrates in hydrothermal conditions.

14.00-15.00. Dinner

Session 2: Modern analytical methods used for studies of mineral formation processes.

15.00-16.40. Hall 1166

Convenors: **A.V. Kozlov, V.G. Krivovichev**

15.00. **Lokhov K.I., Sergeev S.A. (Saint Petersburg)**

Determination of accessory zircon genesis by isotopic hafnium-neodymium systematics.

15.20. **Morozov M., Savichev A.A. (Saint Petersburg)**

Raman mapping: A tool for mineral identification on micro/submicroscale.

15.40. **Skublov S.G., Simakin S.G. (Saint Petersburg)**

First experience of element mapping of zircon crystal using time-of-flight mass-spectrometer TOF-SIMS5.

16.00. **Rassulov V.A. (Moscow)**

Luminescence of zircons and apatites from main types of rocks of the Baltic shield.

16.20. **Gavrilenko V.V., Panova E.G., Matveeva O.P., Cherkasskaya M.V. (Saint Petersburg)**. Investigation of mineral typomorphism during gem beryl prospecting in pegmatites of the Southern Finland (Luumaki deposit).

16.40-17.00. Coffee Break

17.00. **Posters** (the list is given in the end of the programme).
Hall 1164.

8th October, Tuesday

10.00-14.00. Conference Hall

Convenors: **N.P. Yushkin, V.I. Kuzmin**

10.00. ***Kuzmin V.I. (Moscow)***

Mineral ontogeny of the redeposited weathering crust of the Tomtor carbonatite massif: Confirmation of deposit genesis.

10.20. ***Tchaikovskiy I.I. (Perm)***

Processes of modern mineral formation associated with evaporite complexes of Perm region.

10.40. ***Kovalev S.G., Michurin S.V., Timofeeva E.A. (Ufa)***

U-Th-REE-mineralization of the western slope of the Southern Urals (distribution, mineral forms, genesis).

11.00. ***Brusnitsyn A.I. (Saint Petersburg)***

Metamanganolites of Ural: mineralogy and genesis.

11.20. ***Borisov S.V., Magarill S.A., Pervukhina N.V. (Novosibirsk)***

Crystal structural prerequisites of the formation of natural mercury mineral assemblages.

11.40. ***Tatarinov A.V., Yalovik L.I. (Ulan-Ude)***

Bacterial organomineral microaggregates in sediments of mineral springs and alkaline lakes in riftogenic structures of Transbaikalia.

12.00-12.20. Coffee Break

Convenors: **D.V. Rundqvist, N.P. Yushkin**

12.20. ***Yevzikova N.Z. (Saint Petersburg)***

The «Ontogeny of minerals» as a breakthrough into the higher mineralogy.

12.45. ***Gavrilenko V.V., Nesterov A.R., Yanson S.Yu. (Saint Petersburg)***

Typomorphism of minerals as one of bases of architectural heritage preservation of Saint Petersburg.

13.05. ***Koneev R.I. (Tashkent)***

Gold-ore deposits of Uzbekistan: mineralogical-geochemical style and regularities of formation.

13.25. ***Plotinskaya O.Yu., Prokofiev V.Yu., Damian G., Damian F. (Moscow)***

Altaite formation conditions at the Cavnic Pb-Zn Deposit, Baia Mare region, Romania.

13.45. **Farewell talks and the Closing Ceremony.**

14.00-15.00. Dinner

15.00. **Minutes of the RMS Scientific Council.**

Conference Hall.

Posters.
7th October, Wednesday
17.00-18.00. Hall 1164

Convenors: **M.V. Morozov, D.A. Petrov**

Afanasiyeva A.S., Kononov O.V., Yurgenson G.A., Prokofiev V.Yu. (Moscow). Conditions of formation of noble beryl varieties from Sherlovaya mountain.

Bilskaya I.V., Brodskaya R.L. (Saint Petersburg). Typomorphic features of olivine crystals.

Bubnova T.P. (Petrozavodsk). Evaluation of formation conditions and quality of industrial garnets in metamorphic rocks of Karelia.

Voytekhovskiy Yu.L., Chernyavskiy A.V., Voloshin A.V., Shpachenko A.K., Basalayev A.A., Savchenko E.E. (Apatity). New gold localities on the Kola Peninsula.

Golovanova O.A. (Saint Petersburg). Adsorption of glycine and glutamic acid on hydroxylapatite of different stoichiometry.

Gritsenko Yu.D., Spiridonov E.M. (Moscow). Mechanisms of formation of Ni-Co-Fe arsenide spherulites.

Gulbin Yu.L. (Saint Petersburg). Garnet-biotite geothermometer and temperature estimates for zoning garnet formation from metapelites.

Erokhin Yu.V. (Ekaterinburg). Vesuvianite geochemistry of Bazhenovsky ophiolite complex.

Erokhin Yu.V., Khiller V.V. (Ekaterinburg). Monazite from glimmerites of the Shabrovsky ore field.

Zykin N.N. (Moscow). The nature of ore-forming solutions after water oxygen and hydrogen isotope composition from fluid inclusions of ore deposits minerals.

Ivanov B.G. (Saint Petersburg). Features of formation of yttrium aluminium garnet crystals.

Ilyinskaya T.B., Ivanov M.A. (Saint Petersburg).

Mineralogy in philological aspect: The gemstones symbolism in N.S.Leskov works.

Imamendinov B.N., Voytenko V.N., Zadorozhny D.N. (Moscow). Structural evolution of pyrites from Dora-Pil goldfield (Eastern Yakutia).

Kiryanova E.V. (Saint Petersburg). Oscillations of morphology and kinetic properties of crystals in connection with the clustering processes.

Kiseleva G.D., Kovalenker V.A., Trubkin N.V. (Moscow). Dzhailindite assemblage at the Bugdaya Au-Mo-(W)-Pb-Zn porphyry deposit (Eastern Transbaikalia).

Kotova E.L. (Saint Petersburg). Ontogenic analysis of vein quartz and estimation of quality of quartz products.

Kukuy A.L., Skublov S.G. (Saint Petersburg). Statistical principles of REE distribution in Iceland spar crystals.

Lemesheva S.A., Golovanova O.A., Izmaylov R.R. (Omsk). Thermodynamic parameters and laws of formation of phases in bioliquids.

Naumko I.M. (Lviv). Significance of fluid inclusions for studies of ontogeny of minerals from rock-ore complexes of Ukraine.

Naumko I.M., Bondar R.A., Nechepurenko O. O., Sakhno B.E. (Lviv). Volatiles in fluid inclusions of minerals from metamorphic rocks of the Marmarosh massif (Ukrainian Carpathians).

Nikandrov A.S., Nikandrov S.N. (Miass). On the composition of pyroxenes from genetically different mineral objects of the Ilmen mountains.

Pakhomova V.A., Zalishchak B.L., Tishkina V.B., Karabtsov A.A., Buravleva S.Yu., Ushkova M.A. (Vladivostok). Fine-dispersed baddeleyite of the Algama deposit: Problems of ontogeny and thermobarogeochemistry.

Petrov D.A. (Saint Petersburg). Quantitative analysis of the “secondary alaskite” structure in Salmi massif (Karelia).

Popenko G.S. (Tashkent). Growth and morphology of gold in supergene conditions.

Rassulov V.A., Banderova E.A. (Moscow). Luminescence of wollastonite of the Tyrnyauz tungsten deposit.

Rylov V., Meshchaninov F. (Rostov on Don). Ontogeny of pyrrhotite by ore quality estimation of the Kizil-Dere deposit (Privodorazdelnaya zone, Greater Caucasus).

Sakellaris G.A., Meyer F.M., Kolb J., Voudouris P.Ch. (Aachen). Peculiarities of chemical composition of minerals in banded ores of the Mauk massive sulfide deposit (Southern Urals).

Safina N.P., Kotlyarov V.A. (Miass). Peculiarities of chemical composition of minerals in banded ores of the Mauk massive sulfide deposit (Southern Urals).

Simakova Yu.S., Efanova L.I. (Syktyvkar). Mineralogy of eluvial profile on Niyakhoiskoye-2 ore deposit.

Sokerina N.V., Simakova Yu.S. (Syktyvkar). Conditions of calcite formation in veins from Manytanyrd area.

Spiridonov E.M., Abramova T.T., Panasyan L.L., Ladygin V.M., Sokolov V.N., Chernov M.I. (Moscow). Twisted fibrous calcite generated by quaternary glaciation in carboniferous limestones and dolomites of Russian platform.

Suvorova V.A., Kovalsky A.M. (Chernogolovka). (K, Rb)-feldspars: synthesis and X-ray investigation.

Taratin N.V., Glikin A.E., Bocharov S.N., Kryuchkova L.Yu., Plotkina Yu.V. (Saint Petersburg). Micromosaic of mixed crystals of model substances and natural minerals.

Turesebekov A.Kh., Vasilevsky B.B., Sharipov Kh.T., Baranova T.N. (Tashkent). Chemistry of pyrite and arsenopyrite in copper porphyry and gold deposits of black shale formations of the Republic of Uzbekistan as an indicator by quality estimation of mineral raw materials.

Filimonova L.G. (Moscow). Forms, compositions, paragenesis of Dukat ore field granite zircon: Reflection of ore-bearing fluidized melts composition and evolution.

Franke V.D., Glikin A.E., Kotelnikova E.N., Plotkina Yu.V., Shugaev A.I. (Saint Petersburg). Phase heterogeneity of gallstones.

Hmelivskiy V.O., Vjaluj A. (Lviv). Carbomixites: polycomponent carbonate rocks from manganese deposits.

Khokhryakov A.F., Palyanov Yu.N. (Novosibirsk). Origin of drop-shaped hillocks on tetrahedroids of natural diamond.

Shakina K.A., Skakun L.Z. (Lviv). Graphite populations in ores of Zavallya's deposit.

The Organizing Committee

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