



## PROGRAM OF SESSIONS

### Scientific Conference

# «Geological Processes in the Lithospheric Plates Subduction, Collision, and Slide Environments»

Place of the Conference holding: House of Naval Officers, Svetlanskaya str., 48, Vladivostok.

### September 20, Tuesday

**9:00 – 10:00 REGISTRATION OF PARTICIPANTS**

**10:00 – 10:30 OPENING OF THE CONFERENCE**

**Big Hall (2 floor)**

- 10:00 – 10:15 Speech of welcome by Academician A.I. Khanchuk, Vice-President of FEB of RAS, Director of the Far East Geological Institute of FEB of RAS
- 10:15 – 10:30 Speech of welcome by Academician A.O. Gliko, Academician-secretary of the Earth science Department of RAS, Director of the O.Yu. Shmidt Institute of the Earth's Physics of RAS

### PLENARY SESSION

September 20, Tuesday

**10:30 – 16:45**

**Big Hall (2 floor)**

Co-chairmen:

Corresponding member of RAS Lobkovsky L.I. Ph. D. Martynov Yu.A.	<i>Morning meeting</i>
Academician Gordeev E.I. Corresponding member of RAS Sklyarov E.V.	<i>Evening meeting</i>

- 10:30 – 10:55 **Khanchuk A.I., Martynov Yu.A.** (Far East Geological Institute, FEB of RAS, Vladivostok) Tectonics and magmatism of boundaries of sliding of oceanic and continental lithosphere plates

- 10:55 – 11:20 **Gordeev E.I.** (*Institute of Volcanology and Seismology, FEB of RAS, Petropavlovsk-Kamchatsky*) Dynamics and structure of subduction zones
- 11:20 – 11:35 *Coffee break*
- 11:35 – 12:00 **Yarmolyuk V.V.<sup>1</sup>, Kuz'min M.I.<sup>2</sup>** (<sup>1</sup>*Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry of RAS, Moscow*; <sup>2</sup>*Vinogradov Institute of Geochemistry, Siberian Branch of RAS, Irkutsk*) West-Pacific type of convergent boundaries of lithosphere plates
- 12:00 – 12:20 **Fedorovsky V.S.<sup>1</sup>, Sklyarov E.V.<sup>2</sup>** (<sup>1</sup>*Geological Institute of RAS, Moscow*; <sup>2</sup>*Institute of Earth's crust, Siberian Branch of RAS, Irkutsk*) Anatomy of zones of oblique collision (on the example of the Ol'khon collision system, West Baikal area)
- 12:20 – 12:40 **Golozubov V.V., Simanenko V.P., Malinovsky A.I.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) About recognition of regimes of lithosphere plate sliding in orogenic belt structures
- 12:40 – 13:00 **Goryachev N.A.** (*North-East Interdisciplinary Research Institute, FEB of RAS, Magadan*) Gold deposits occurred along the lithospheric plates slide boundaries
- 13:00 – 14:30 *Lunch break*
- 14:30 – 14:50 **Lobkovsky L.I.** (*Shirshov Institute of Oceanology, Moscow*) Tectonics of deformed lithosphere plates – generalization of classic conception and new methodology of quantitative geodynamic analysis
- 14:50 – 15:10 **Gwishiani A.D.** (*Geophysical Center of RAS, Moscow*) Results of application of illegible clusterization to gravitation data in the Molukkskoe Sea region
- 15:10 – 15:30 **Sokolov S.D.** (*Geological Institute of RAS, Moscow*) Tectonics of South-Anyui suture and problem of the Amerasian basin
- 15:30 – 15:45 *Coffee break*
- 16:45 – 16:05 **Vernikovskiy V.A.<sup>1,2</sup>, Vernikovskaya A.E.<sup>1</sup>, Metelkin D.V.<sup>1,2</sup>, Matushkin N.Yu.<sup>1,2</sup>** (<sup>1</sup>*Trofimuk Institute of Oil-Gas Geology and Geophysics of Siberian Branch of RAS, Novosibirsk*; <sup>2</sup>*Novosibirsk State University, Novosibirsk*) Formation of nappe-fold belts in the Siberian craton surroundings: geodynamics, evolution of magmatism, and ore formation
- 16:05 – 16:25 **Kemkin I.V.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Accretionary prisms of ancient subduction zones
- 16:25 – 16:45 **Report of the sponsor: Shcherbakov K.G., Yakubovskaya A.Ya.** (*Shimadzu Europe GmbH*) Determination of chemical and phase composition of geological samples by instrumental methods of analysis (on the example of "Shimadzu" equipment)

## SECTION 1: “Geological structure, stratigraphy, and lithology of zones of subduction, collision, and sliding of lithosphere plates and dynamics of their interaction”

September 21, Wednesday

9:30 – 17:15

**Big Hall (2 floor)**

Co-chairmen:

Ph.D. Golozubov V.V.

*Morning*

Ph.D. Sokolov S.D.

*meeting*

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Ph.D. Grannik V.M.

*Evening*

Ph.D. Kemkin I.V.

*meeting*

- 9:30 – 9:45 **Bretshtein Yu.S.** (*Kosygin Institute of Tectonics and Geophysics, FEB of RAS, Khabarovsk*) Geokinematics of terranes of Bureya-Khanka and Solonkersky orogenic belts from paleomagnetic data
- 9:45 – 10:00 **Grannik V.M.** (*Institute of Marine Geology and Geophysics, FEB of RAS, Yuzhno-Sakhalinsk*) Convergent and transform interaction of lithosphere plates: formation of geological structure of Sakhalin Island and bottom of adjacent water areas
- 10:00 – 10:15 **Derkachev A.N., Nikolaeva N.A.** (*Pacific Oceanological Institute, FEB of RAS, Vladivostok*) Associations of heavy minerals of sediments as indicator of structural-tectonic position of sedimentation basins: possibilities and realities of identification
- 10:15 – 10:30 **Pletnev S.P.<sup>1</sup>, Mel'nikov M.E.<sup>2</sup>** (<sup>1</sup>*Il'ichev Pacific Oceanological Institute, FEB of RAS, Vladivostok*; <sup>2</sup>*State Scientific Centre YUZHMOREGEOLOGIYA, Gelenzhik*) Evolution of geodynamic regimes in zone of lithospheric plate contact (on the example of island-arc systems Tonga-Kermadec, Vanuatu, and Mussau, and Hunter fault)
- 10:30 – 10:45 **Mel'nichenko Yu.I., S'edin V.T.** (*Il'ichev Pacific Oceanological, FEB of RAS, Vladivostok*) Special features of structure and tectonic setting of formation of the Kyushu-Palau Ridge central part (Philippine Sea)
- 10:45 – 11:00 **Voinova I.P.** (*Kosygin Institute of Tectonics and Geophysics, FEB of RAS, Khabarovsk*) Character of structure of Samarka accretionary prism as a result of its formation under the conditions of oblique subduction
- 11:00 – 11:15 *Coffee break*
- 11:15 – 11:30 **Buslov M.M.** (*Sobolev Institute of Geology and Mineralogy, Siberian Branch of RAS, Novosibirsk*) Role of Late Paleozoic large-amplitude faults in formation of the Central-Asian fold belt
- 11:30 – 11:45 **Bian W.<sup>1</sup>, Wang P.<sup>1</sup>, Zhu R.<sup>2</sup>, Mao Z.<sup>2</sup>, Tang H.<sup>1</sup>** (<sup>1</sup>*Jilin University, China*; <sup>2</sup>*Petroleum Exploration & Development Research Institute, China*) Volcanic and sedimentary sequences of upper Carboniferous Bashan Formation in the Junggar Basin, NW China
- 11:45 – 12:00 **Yurkova R.M., Voronin B.I.** (*Institute of Problems of Petroleum and Gas of RAS, Moscow*) Lithogenesis of flysch complexes of fore-island-arc paleozones
- 12:00 – 12:15 **Shevchenko B.F., Gil'manova G.Z., Rybas O.V.** (*Kosygin Institute of Tectonics and Geophysics, FEB of RAS, Khabarovsk*) Cenozoic rifting and lineament structures of the Amur plate eastern part

- 12:15 – 12:30 **Mitrokhin A.N.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Structural-dynamic conditions of localization of rocks of the Silinsky volcano-plutonic complexes (Komsomol'sky ore district)
- 12:30 – 12:45 **Losiv V.M.** (*NP «Russian Geotechnical Association», Branch “AIIS – Far East”, Vladivostok*) Geological structure and tectonics of the South Sikhote-Alin
- 12:45 – 13:00 **Nevolin P.L., Utkin V.P., Mitrokhin A.N.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Dynamics of positioning and structuring of terranes suturing and overlapping complexes in the Khanka massif south surroundings
- 13:00 – 14:30 *Lunch break*
- 14:30 – 14:45 **Kasatkin S.A., Golozubov V.V.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Cenozoic deformation and modern fields of stress of Sakhalin Island
- 14:45 – 15:00 **Phách P.V.<sup>1</sup>, Golozubov V.V.<sup>2</sup>, Pubellier M.<sup>3</sup>, Dŭng T.T.<sup>1</sup>, Tín N.T.<sup>4</sup>** (<sup>1</sup>*Institute of Marine Geology and Geophysics Vietnam Academy of Science and Technology*; <sup>2</sup>*Far East Geological Institute, FEB of RAS, Vladivostok*; <sup>3</sup>*L'Ecole Normale Supperrier, Paris*; <sup>4</sup>*Vietnam Petroleum Institute*) Tectonic structures of southwestern part of deep water basin of eastern Vietnam sea
- 15:00 – 15:15 **Sorokina A.T., Sherman S.I., Popov A.A.** (*Institute of Geology and Nature Management, FEB of RAS, Blagoveshchensk*) Degassing of bowels of the Zeya-Bureya basin – regulator of seismic regime and geodynamic stresses
- 15:15 – 15:30 **Wang P.** (*Jilin University, China*) Tectonic and sedimentary evolution of the Songliao basin, late Mesozoic, NE China
- 15:30 – 15:45 **Liu Y., Zhang X., Wen Q., Han G., Li W.** (*Jilin University, China*) Uplifting of the Jiamusi Block in the eastern Central Asian Orogenic Belt, NE China: evidence from basin provenance and geochronology
- 15:45 – 16:00 *Coffee break*
- 16:00 – 16:15 **Sun Y., Zhang X., Li M.** (*Jilin University, China*) New material on Permian phytogeography in the Yanbian area, eastern Jilin Province, China
- 16:15 – 16:30 **Toker M.<sup>1</sup>, Krastel S.<sup>2</sup>, Demirel-Schlueter F.<sup>3</sup>, Demirbağ, E.<sup>1</sup>** (<sup>1</sup>*Istanbul Technical University, Maslak-Istanbul/Turkey*; <sup>2</sup>*University of Kiel, Kiel/Germany*; <sup>3</sup>*Bremen University, Bremen/Germany*) The Highlands Rifting Phenomena in Lake Van Dome as a morphological paradigm and Model Synthesis, Eastern Anatolia Accretionary Complex (EAAC), E Turkey

## SECTION 2: «Magmatism and metamorphism in the settings of subduction, collision, and sliding of lithosphere plates»

September 21, Wednesday

9:30 – 17:30

**Small Hall (1 floor)**

Co-chairmen:

Ph. D. Sorokin A.A.

*Morning*

Ph. D. Akinin V.V.

*meeting*

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Ph. D. Martynov Yu.A.

*Evening*

Ph. D. Perepelov A.B.

*meeting*

- 9:30 – 9:45 **Glukhovskiy M.Z.<sup>1</sup>, Kuzmin M.I.<sup>2</sup>** (<sup>1</sup>*Geological Institute of RAS, Moscow; <sup>2</sup>Vinogradov Institute of Geochemistry, Siberian Branch of RAS, Irkutsk*) Convergence of supra-subduction geochemical indicators on the example of the Paleoproterozoic impact pseudo-tachylites of Anabarsky shield
- 9:45 – 10:00 **Khromykh S.V., Semenov I.V., Kruk N.N.** (*Sobolev Institute of Geology and Mineralogy, Siberian Branch of RAS, Novosibirsk*) Petrology of contrasting gabbro-syenite-granitoid series of the Altai collision system of Hercynides: types and mechanism of the mantle-crust interaction
- 10:00 – 10:15 **Antipin V.S.<sup>1</sup>, Dril' S.I.<sup>1</sup>, Odgerel D.<sup>2</sup>** (<sup>1</sup>*Vinogradov Institute of Geochemistry, Siberian Branch of RAS, Irkutsk; <sup>2</sup>Institute of Geology and Mineral Resources of Acad. Sciences of Mongolia, Ulan-Bator*) Mesozoic intrusive-dike series of granitoids of Central Mongolia
- 10:15 – 10:30 **Anfilogov V.N.** (*Institute of Mineralogy, Ural Branch of RAS, Miass*) Nature of spatial combined basaltic and acid volcanism
- 10:30 – 10:45 **Vladimirov A.G.<sup>1,2,3</sup>, Smirnov S.Z.<sup>1,2</sup>, Annikova I.Yu.<sup>1</sup>, Moroz E.N.<sup>1</sup>, Kotler P.D.<sup>2</sup>, Mikheev E.I.<sup>2</sup>, Gavryushkina O.A.<sup>2</sup>** (<sup>1</sup>*Sobolev Institute of Geology and Mineralogy, Siberian Branch of RAS, Novosibirsk; <sup>2</sup>Novosibirsk State University, Novosibirsk; <sup>3</sup>Tomsk State University, Tomsk*) Stress-granites and spodumene pegmatites of Central Asia
- 10:45 – 11:00 **Kulakov I.Yu.<sup>1</sup>, Gordeev E.I.<sup>2</sup>, Dobretsov N.L.<sup>3</sup>, Vernikovskiy V.A.<sup>1</sup>** (<sup>1</sup>*Trofimuk Institute of Petroleum-Gas Geology and geophysics, Siberian Branch of RAS, Novosibirsk; <sup>2</sup>Institute of Volcanology and Seismology, FEB of RAS, Petropavlovsk-Kamchatsky; <sup>3</sup>Sobolev Institute of Geology and Mineralogy, Siberian Branch of RAS, Novosibirsk*) Variations of feeding regime of the Klyuchevskiy volcano group from 1999 to 2009 from four-dimension tomography
- 11:00 – 11:15 *Coffee break*
- 11:15 – 11:30 **Tsukanov N.V.<sup>1</sup>, Palechek T.N.<sup>2</sup>, Skolotnev S.G.<sup>2</sup>** (<sup>1</sup>*Shirshov Institute of Oceanology of RAS, Moscow; <sup>2</sup>Geological Institute of RAS, Moscow*) Early supra-subduction volcanism of Kronotskaya paleoarc (East Kamchatka): age and composition
- 11:30 – 11:45 **Gornova M.A.** (*Vinogradov Institute of Geochemistry, Siberian Branch of RAS, Irkutsk*) Geochemical features of peridotites of supra-subduction zones: processes of melting and interaction with melt

- 11:45 – 12:00 **Dril' S.I., Gerasimov N.S., Sandimirova G.P., Il'ina N.N., Chukanova V.S., Spiridonov A.M.** (*Vinogradov Institute of Geochemistry, Siberian Branch of RAS, Irkutsk*) Isotope-geochemical features of granite formation processes in Paleozoic accretionary prisms on the example of Mongol-Okhotsk belt
- 12:00 – 12:15 **Rasskazov S.V.<sup>1,2</sup>, Chuvashcheva I.S.<sup>1,2</sup>, Yasnygina T.A.<sup>1</sup>, Fefelov N.N.<sup>1</sup>, Saranina E.V.<sup>1</sup>** (<sup>1</sup>*Institute of the Earth's crust, Siberian Branch of RAS, Irkutsk*; <sup>2</sup>*Irkutsk State University, Irkutsk*) Convergence and divergence of central and east Asia: reflection in the Cenozoic magmatism development
- 12:15 – 12:30 **Vakh A.S.<sup>1</sup>, Avchenko O.V.<sup>1</sup>, Kisilev V.I.<sup>1</sup>, Sergeev S.A.<sup>2</sup>, Presnyakov S.L.<sup>2</sup>** (<sup>1</sup>*Far East Geological Institute, FEB of RAS, Vladivostok*; <sup>2</sup>*Karpinsky All-Russia Research Geological Institute, St.-Petersburg*) New data on manifestation of Paleozoic magmatism within Selenga-Stanovoy terrane of North-Asian craton
- 12:30 – 12:45 **Perpelov A.B.<sup>1</sup>, Chashchin A.A.<sup>2</sup>, Tsypukova S.S.<sup>1</sup>** (<sup>1</sup>*Vinogradov Institute of Geochemistry, Siberian Branch of RAS, Irkutsk*; <sup>2</sup>*Far East Geological Institute, FEB of RAS, Vladivostok*) Indicator role of NEB-adakite magmatism in history of geodynamic development of the Kamchatka island-arc system
- 12:45 – 13:00 **Polin V.F.<sup>1</sup>, Mitsuk V.V.<sup>2</sup>, Budnitskiy S.Yu.<sup>1</sup>** (<sup>1</sup>*Far East Geological Institute, FEB of RAS, Vladivostok*; <sup>2</sup>*ZAO «Zonal'noe», Yuzhno-Sakhalinsk*) Geochronological borders of setting of plate sliding in Ketkap-Yunskaya magmatic province of Aldan shield form isotopic dating
- 13:00 – 14:30 *Lunch break*
- 14:30 – 14:45 **Valui G.A.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Granite formation in the continent-ocean transition zone from Sm-Nd-Sr isotopy
- 14:45 – 15:00 **Simanenko V.P., Popov V.K., Chashchin A.A.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Maastrichtian volcanism of the Sikhote-Alin: geochemical evidence of the geodynamic regime reconstruction of the region at the Mesozoic-Cenozoic boundary
- 15:00 – 15:15 **Sorokin A.A.** (*Institute of Geology and Nature Management, FEB of RAS, Blagoveshchensk*) Late Mesozoic magmatism of north margin of Amursky superterrane: age levels, sources, geodynamic interpretation
- 15:15 – 15:30 **Akinin V.V.** (*North-East Interdisciplinary Research Institute, FEB of RAS, Magadan*) Isotopic geochronology of Cretaceous magmatism of North-East Asia and possible boundaries of geodynamic stages of plate shift/sliding
- 15:30 – 15:45 **Kruk N.N.<sup>1</sup>, Timkin V.I.<sup>2</sup>, Krupchatnikov V.I.<sup>2</sup>, Shokal'sky S.P.<sup>3</sup>** (<sup>1</sup>*Sobolev Institute of Geology and Mineralogy, Siberian Branch of RAS, Novosibirsk*; <sup>2</sup>*OAO "Gorno-Altayskaya expedition", Altaisky Krai, Maloeniseiskoe settlement*; <sup>3</sup>*Karpinsky All-Russia Research Geological Institute, St.-Petersburg*) Late Devonian (Frasnian) magmatism of Mountain Altai as indicator of inversion of geodynamic regime of active continental margin
- 15:45 – 16:00 *Coffee break*
- 16:00 – 16:15 **Yefremov S.V.** (*Vinogradov Institute of Geochemistry, Siberian branch of RAS, Irkutsk*) Geochemically specialized reservoirs in continental lithosphere as possible sources of rare-metal granitoids

- 16:15 – 16:30 **Prikhod'ko V.S., Petukhova L.L.** (*Kosygin Institute of Tectonics and Geophysics, FEB of RAS, Khabarovsk*) Composition and structure of lithosphere mantle of the Far East of Russia from study of deep-seated xenoliths
- 16:30 – 16:45 **Kazachenko V.T., Lavrik S.N., Perevoznikova E.V., Kononov V.V., Safronov P.P.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Lamproites of Taukha terrane (South-East Sikhote-Alin)
- 16:45 – 17:00 **Dokukina K.A., Mints M.V., Konilov A.N.** (*Geological Institute of RAS, Moscow*) White-Sea Meso-Neo-Archean eclogite province: comparison with Phanerozoic analogs
- 17:00 – 17:15 **Rusin A.I.** (*Zavaritsky Institute of Geology and Geochemistry, Ural Branch of RAS, Yekaterinburg*) Geodynamic aspects of magmatism evolution of orogenic belts
- 17:15 – 17:30 **Tararin I.A., Badredinov Z.G.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Geochemistry of processes of granitization and magmatic replacement of basite hornfels of contact aureoles of Yurchiksky gabbro-norite intrusive of Ganalsky Ridge, Kamchatka

### SECTION 3: «Ore formation on the boundaries of subduction, collision, and sliding of lithosphere plates»

September 22, Thursday

**9:00 – 13:15**

**Big Hall (2 floor)**

Co-chairmen:

Corresponding member of RAS Goryachev N.A.

Ph. D. Gonevchuk V.G.

Ph. D. Khomich V.G.

- 9:00 – 9:15 **Sorokin A.P.<sup>1</sup>, Rozhdestvina V.I.<sup>2</sup>, Kuzminykh V.M.<sup>1</sup>, Artemenko T.V.<sup>2</sup>, Sorokina A.T.<sup>2</sup>, Leusova N.Yu.<sup>2</sup>, Kiseleva A.A.<sup>2</sup>** (<sup>1</sup>*Amursky Scientific Center, FEB of RAS, Blagoveshchensk*; <sup>2</sup>*Institute of Geology and Nature Management, FEB of RAS, Blagoveshchensk*) Mesozoic-Cenozoic collision and accretionary geological processes on east margin of Central Asian fold belt (structural transformations and features of minerageny)
- 9:15 – 9:30 **Khomich V.G., Boriskina N.G.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Precious-metal ore genesis in mobile belts of South-East Russia
- 9:30 – 9:45 **Seifert T.** (*TU Bergakademie Freiberg, Germany*) Rare metal mineralization stages in the Erzgebirge metallogenic province and their link to mantle-derived magmatic pulses
- 9:45 – 10:00 **Kholodnov V.V., Shagalov E.S.** (*Zavaritsky Institute of Geology and Geochemistry, Ural Branch of RAS, Yekaterinburg*) Role and influence of mantle and crustal sources and fluid regime on the composition and metallogenic signature (Au, W, Bi, Mo, and others) of long-developed marginal-continental granitoid plutons of the Central and South Urals

- 10:00 – 10:15 **Garmaev B.L.<sup>1</sup>, Damdinov B.B.<sup>1</sup>, Goryachev N.A.<sup>2</sup>** (<sup>1</sup>*Geological Institute, Siberian Branch of RAS, Ulan-Ude;* <sup>2</sup>*North-East Interdisciplinary Research Institute, FEB of RAS, Magadan*) Gold mineralization in collision granites of Southeast part of the East Sayan
- 10:15 – 10:30 **Gamyarin G.N.<sup>1</sup>, Goryachev N.A.<sup>2</sup>** (<sup>1</sup>*Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry of RAS, Moscow;* <sup>2</sup>*North-East Interdisciplinary Research Institute, FEB of RAS, Magadan*) As and Bi as indicators of genetic features of orogenic gold deposits of North-East Russia
- 10:30 – 10:45 **Gonevchuk V.G.<sup>1</sup>, Korostelev P.G.<sup>1</sup>, Semenyak B.I.<sup>1</sup>, Gonevchuk G.A.<sup>1</sup>, Gorelikova N.V.<sup>2</sup>** (<sup>1</sup>*Far East Geological Institute, FEB of RAS, Vladivostok;* <sup>2</sup>*Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry of RAS, Moscow*) Tin-bearing systems of active margins: features of genesis and ore content
- 10:45 – 11:00 **Ratkin V.V.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Boron-lead-zinc and tin ores of subduction stage of formation of the East-Sikhote-Alin volcano-plutonic belt: spatial-temporal correlations
- 11:00 – 11:15 *Coffee break*
- 11:15 – 11:30 **Gorelikova N.V.<sup>1</sup>, Khanchuk A.I.<sup>2</sup>, Gonevchuk V.G.<sup>2</sup>, Pawlowsky-Glahn V.<sup>3</sup>, Tolosana-Delgado R.<sup>3</sup>, Chizhova I.A.<sup>1</sup>** (<sup>1</sup>*Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry of RAS, Moscow;* <sup>2</sup>*Far East Geological Institute, FEB of RAS, Vladivostok;* <sup>3</sup>*Universitat de Girona, Spain*) Geodynamic typification of ore districts from microelements in cassiterites
- 11:30 – 11:45 **Gvozdev V.I., Fedoseev D.G.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Evolution of tungsten-bearing ore-magmatic systems on the example of Malinovsky ore node (Primorsky Krai)
- 11:45 – 12:00 **Ivin V.V.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Kumirnoe silver deposit (North Primorye) and probable geodynamic regime of its formation
- 12:00 – 12:15 **Ivanov V.V., Kolesova L.G., Maksimov S.O., Lesnov S.V., Lotina A.A., Budnitsky S.Yu., Zarubina N.V.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Barophilic minerals from Bolotistaya gold placer (west spurs of the Sikhote-Alin) as indicators of geodynamic regime
- 12:15 – 12:30 **Seredin V.V.<sup>1</sup>, Chekryzhov I.Yu.<sup>2</sup>, Popov V.K.<sup>2</sup>** (<sup>1</sup>*Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry of RAS, Moscow;* <sup>2</sup>*Far East Geological Institute, FEB of RAS, Vladivostok*) Rare-metal tuffs of Cenozoic coal-bearing basins of Primorye formed in the setting of lithosphere plate sliding
- 12:30 – 12:45 **Karas O.A.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) A pattern of the unique Dalnegorsk boron deposit (Primorye) formation in the lithospheric plates slide environment
- 12:45 – 13:00 **Pandian M.S.<sup>1</sup>, Gonevchuk V.G.<sup>2</sup>, Gvozdev V.I.<sup>2</sup>, Orekhov A.A.<sup>2</sup>, Semenyak B.I.<sup>2</sup>, Jyothykrishna R.S.<sup>1</sup>** (<sup>1</sup>*Pondicherry University, India;* <sup>2</sup>*Far East Geological Institute, FEB of RAS, Vladivostok*) Comparison of hydrothermal processes in the formation of Vostok-2 skarn scheelite deposit, Primorsky Krai, Russia and Belkapahar skarn wollastonite deposit, Rajasthan, India: Fluid inclusion evidence



13:00 – 13:15 **Damdinov B.B.** (*Geological Institute, Siberian Branch of RAS, Ulan-Ude*) Gold-platinoid mineralization in glaucophane-bearing metabasites of the East Sayan

## SECTION 4: «Investigation of geological structures and processes with mathematic, geophysical, satellite, and other methods»

September 22, Thursday

**9:45 – 13:00**

**Small Hall (1 floor)**

Co-chairmen:

Ph. D. Didenko A.N.

Ph. D. Naumova V.V.

- 9:45 – 10:00 **Didenko A.N.**<sup>1,2</sup>, **Shevchenko B.F.**<sup>1</sup>, **Goroshko M.B.**<sup>1</sup>, **Gur'yanov V.A.**<sup>1</sup> (<sup>1</sup>*Kosygin Institute of Tectonics and Geophysics, FEB of RAS, Khabarovsk*; <sup>2</sup>*Geological Institute of RAS, Moscow*) Area of joint of Central-Asian fold belt and Siberian platform: profile 3-DV Skovorodino-Tommot
- 10:00 – 10:15 **Petrishchevsky A.M.** (*Institute of Complex Analysis of Regional Problems, FEB of RAS, Birobidzhan*) Gravitation models of joint zones of marginal-sea plates of North-East Asia with Eurasian plate
- 10:15 – 10:30 **Kugaenko Yu.A.**<sup>1</sup>, **Saltykov V.A.**<sup>1</sup>, **Abkadyrov I.F.**<sup>2</sup>, **Gorbatikov A.V.**<sup>3</sup>, **Stepanova M.Yu.**<sup>3</sup>, **Voropaev P.V.**<sup>1</sup> (<sup>1</sup>*Kamchatsky Branch of Geophysical Survey of RAS, Petropavlovsk-Kamchatsky*; <sup>2</sup>*Institute of Volcanology and Seismology, FEB of RAS, Petropavlovsk-Kamchatsky*; <sup>3</sup>*Shmidt Institute of Physics of Earth of RAS, Moscow*) Recognition of shallow magmatic centers in Kamchatka by method of low-frequency microseismic probing
- 10:30 – 10:45 **Losiv V.M.**<sup>1</sup>, **Obzhirov A.I.**<sup>2</sup> (<sup>1</sup>*NP «Russian Geotechnical Association», Branch «AIIS-Far East», Vladivostok*; <sup>2</sup>*Il'ichev Pacific Oceanological Institute, FEB of RAS, Vladivostok*) Perspectives of petroleum-gas content of Primorsky Krai territory
- 10:45 – 11:00 **Kulinich R.G.**, **Valitov M.G.** (*Il'ichev Pacific Oceanological Institute, FEB of RAS, Vladivostok*) Central Kurils: geophysical fields, block structure, and Simushir earthquakes
- 11:00 – 11:15 *Coffee break*
- 11:15 – 11:30 **Goryachev N.A.**, **Palymsky B.F.**, **Golubenko I.S.**, **Lyamin S.M.** (*North-East Interdisciplinary Research Institute, FEB of RAS, Magadan*) Summary geological map of Magadanskaya Oblast' and principals of its compilation
- 11:30 – 11:45 **Levin V.A.** (*Institute of Automatics and Processes of Management, FEB of RAS, Vladivostok*) Satellite monitoring of natural processes and phenomena in the Far East from data of meteorological satellites
- 11:45 – 12:00 **Chetyrbotsky A.N.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) 3D numerical modeling of heat flow structure at asthenosphere-lithosphere boundary

- 12:00 – 12:15 **Naumova V.V., Goryachev I.N.** (*Far East Geological Institute, FEB of RAS, Vladivostok*) Integration of spatial data and services on geology of the Far East on the basis of portal solution
- 12:15 – 12:30 **Shestakov N.V.<sup>1,2</sup>, Jeongho Baek<sup>3</sup>, Gerasimenko M.D.<sup>1,4</sup>, Hiroaki Takahashi<sup>5</sup>, Kolomiets A.G.<sup>1</sup>, Gerasimov G.N.<sup>1,4</sup>, Bormotov V.A.<sup>6</sup>, Bykov V.G.<sup>6</sup>, Pilho Park<sup>3</sup>, Jaehee Cho<sup>2</sup>, Tereshkina A.A.<sup>4</sup>, Vasilenko N.F.<sup>7</sup>, Prytkov A.S.<sup>7</sup>** (*<sup>1</sup>Institute of Applied Mathematics, FEB of RAS, Vladivostok; <sup>2</sup>Kwangwoon University, Korea; <sup>3</sup>Korea Astronomy and Space Science Institute, Korea; <sup>4</sup>Far East Federal University, Vladivostok; <sup>5</sup>Hokkaido University, Sapporo/Japan; <sup>6</sup>Kosygin Institute of Tectonics and Geophysics, FEB of RAS, Khabarovsk; <sup>7</sup>Institute of Marine Geology and Geophysics, FEB of RAS, Yuzhno-Sakhalinsk*) Large-scale deformations of Earth' crust in East Asia caused by Japanese earthquake on March 11, 2011 (mw=9.0) according to GPS measurements
- 12:30 – 12:45 **Novopashina A.V.** (*Institute of Earth's crust, Siberian Branch of RAS, Irkutsk*) Modeling of migration of seismic activity using geoinformation systems
- 12:45 – 13:00 **Golubenko I.S., Zinkevich A.S., Lyamin S.M.** (*North-East Interdisciplinary Research Institute, FEB of RAS, Magadan*) Organization of spatial data on the example of a single information system

## POSTER SECTION

September 22, Thursday

14:30 – 16:00

*Hall (1 floor)*

## CLOSING OF CONFERENCE. Common discussion.

September 22, Thursday

16:00 – 17:00

*Big Hall (2 floor)*