GEOLOGY ON THE EDGE OF THE CONTINENT

III International School-Conference of Young Scientists held by FEGI FEB RAS.

September 16–20, 2024

CONFERENCE PROGRAM

September 16	
10:00 – 11:00	Conference registration at FEG Institute (2nd floor)
11:00	Departure from Vladivostok to the expedition base of FEGI FEB RAS (passenger loading takes place at FEGI)
11:40-12:00	Stop at the Vladivostok International Airport (Knevichi)
14:30–16:30	Arrival to and check-in at the expedition base of FEGI FEB RAS
19:00	Banquet

The Conference will be held at the expedition base of FEGI FEB RAS, 21 Livadiyskaya St., Avangard village, Nakhodka, Primorye

September 17	
09:30 – 09:35	**Opening of the III International School-Conference of Young Scientists "Geology on the edge of the continent". Opening speech by A.I. Khanchuk, the Principal Adviser of FEGI FEB RAS, Academician of RAS**
09:35 – 09:40	**Welcome speech by Prof. Ge Sun, Shenyang Normal University, China**
09:40 – 09:45	**Welcome speech by Prof. Fengyue Sun, Jilin University, China**
Plenary Session	
09:45-10:05	**A.I. Khanchuk, Academician of RAS** LITHOSPHERIC PLATES SUBDUCTION AND SLIDING BOUNDARIES AND FORMATION SETTINGS OF MAFIC-ULTRAMAFIC INTRUSIONS IN THE SIKHOTE-ALIN OROGENIC BELT *(Far East Geological Institute FEB RAS, Vladivostok)*
10:05 – 10:25	**N.A. Goryachev, Academician of RAS** EARLY CRETACEOUS METALLOGENY OF THE YANA-KOLYMA FOLD BELT AND ADJACENT STRUCTURES OF THE OKHOTSK-KORYAK BELT AROUND THE SIBERIAN CRATON *(N.A. Shilo North-East Interdisciplinary Scientific Research Institute FEB RAS, Magadan)*

SESSION 1: "Tectonics, regional and structural geology" Chair: A.V. Konovalov, Ph.D.	
10:25 – 10:40	**E.A. Brusnitsyna, V.B. Ershova** NEW U-PB (SHRIMP) GEOCHRONOLOGICAL DATA ON THE AGE OF GRANITOIDS FROM THE SOUTHERN PART OF THE PRIKOLYMA TERRANE (MAGADAN REGION) (*A.P. Karpinsky Russian Geological Research Institute, St Petersburg University, Saint-Petersburg, Diamond and Precious Metal Geology Institute SB RAS, Yakutsk*)
10:40 – 10:55	**V.D. Zindobryi, M.M. Buslov, V.A. Simonov, A.V. Kotlyarov** AGE AND GEODYNAMIC ORIGIN OF OPHIOLITES OF THE EASTERN GORNY ALTAI (BASED ON THE KABAK-TAIGA MASSIF) (*Institute of Geology and Mineralogy SB RAS, Novosibirsk*)
Coffee break	
11:10 – 11:25	**V.P. Komzeleva** FEATURES OF THE VELOCITY STRUCTURE BENEATH THE EBEKO VOLCANO (PARAMUSHIR ISLAND) BASED ON THE RESULTS OF SEISMIC TOMOGRAPHY (*Novosibirsk State University, A.A. Trofimuk Institute of Petroleum Geology and Geophysics SB RAS, Novosibirsk*)
11:25 – 11:40	**E.A. Moroz, E.A. Eremenko, A.P. Denisova, A.V. Kokhan, R.A. Ananiev** GEOLOGICAL AND GEOMORPHOLOGICAL SETTING OF OUTGASSING ON THE BARENTS AND KARA SHELVES BASED ON SEISMOACOUSTIC AND BATHYMETRIC DATA *(Geological Institute RAS, Moscow)*
11:40 – 11:55	**I.R. Rakhimov** SILL INCEPTION IN THE WEST MAGNITOGORSK ZONE OF THE SOUTHERN URALS DURING THE EARLY CARBONIFEROUS IN THE SETTING OF THE LAURASIA SUPERCONTINENT ASSEMBLY *(Institute of Geology UFRC RAS, Ufa)*
11:55 – 12:10	**L.I. Salimgaraeva** ISOTOPIC SYSTEMS PRESERVATION IN ZIRCON DURING HIGH GRADE METAMORPHISM: THE EXAMPLE OF GRANULITES OF THE BERGEN ARCS COMPLEX *(Institute of Precambrian Geology and Geochronology RAS, St. Petersburg)*
Lunch	
Plenary Session	
13:10 – 13:30	**V.S. Pushkar, Dr.** THE PROBLEM OF MARINE ISOTOPE STAGE 11 (MIDDLE PLEISTOCENE) *(Far East Geological Institute FEB RAS, Vladivostok)*
13:30 -13:50	**Yuewu Sun, Ying Zhang, Quanyou Liu, Xiang Li, Shuqin Zhang** WAS THE CARNIAN PLUVIAL EVENT SYNCHRONOUS? *(Research Center of Paleontology and Stratigraphy, Jilin University, Changchun, China)*
13:50 – 14:10	**Yun-Feng Li, Chang-Lu Zhang, Chun-Lin Sun, Tao Li, Yu-Ling Na** MIDDLE JURASSIC PALEOPHYTOECOLOGY IN THE NORTHEASTERN PART OF THE ORDOS BASIN *(Research Center of Paleontology and Stratigraphy, College of Earth Sciences, Jilin University, Changchun, China)*
14:10 – 14:30	**Yuewu Sun, Xueqin Wang, Muhammad Imran Asghar, Shuqin Zhang** MIDDLE-LATE PERMIAN PALYNOSTRATIGRAPHY IN JUNGGAR BASIN, NORTHERN XINJIANG, CHINA *(Research Center of Paleontology and Stratigraphy, Jilin University, Changchun, China)*
Coffee break	

SESSION 2: "Stratigraphy, lithology, paleontology and paleoclimatology" Chair: Dr. V.S. Pushkar	
14:45 – 15:00	**V.S. Novikov, A.V. Daryin, G. Chu** FINDINGS OF CRYPTOTEPHRA TRACES IN THE BOTTOM SEDIMENTS OF LAKE CHASHA (SOUTH KAMCHATKA) *(Institute of Geology and Mineralogy SB RAS, Novosibirsk)*
15:00 – 15:15	**L.O. Utyupin, M.A. Ushkova, A.V. Romanova, S.P. Pletnev, A.V. Poselyuzhnaya** APPLICATION OF X-RAY MICROTOMOGRAPHY TO DETECT EARLY AUTIGENIC CHANGES IN FORAMINIFERA SHELLS *(Far East Geological Institute FEB RAS, Vladivostok)*
15:15 – 15:30	**A.R. Yusupova, D.M. Kuzina** LITHOLOGICAL FEATURES OF BOLSHOE AND MALOE MIASSOVO LAKE SEDIMENTS IN SOUTHERN URALS *(Kazan Federal University, Institute of Geology and Petroleum Technologies, Kazan)*
15:30 – 15:45	**A.S. Nezhdanova, M.S. Obrezkova** DISTRIBUTION OF DIATOMS IN SURFACE SEDIMENTS IN THE SOUTHWESTERN CHUKCHI SEA *(V.I. Il'ichev Pacific Oceanological Institute FEB RAS, Vladivostok)*
September 18	
Plenary Session	
09:00-09:20	**E.B. Salnikova, Ph.D.** U-PB (ID-TIMS) DATING: BASIC PRINCIPLES AND NEW APPROACHES *(Institute of Precambrian Geology and Geochronology RAS, St. Petersburg)*
09:20 – 09:40	**Yu.V. Plotkina, Ph.D.** MAIN GEOCHRONOMETER MINERALS AND METHODS OF THEIR STUDY *(Institute of Precambrian Geology and Geochronology RAS, St. Petersburg)*
SESSION 3: "Petrology, geochemistry and mineralogy" Chair: A.V. Grebennikov, Ph.D.	
09:40 – 09:55	**E.V. Levashova, D.A. Zamyatin, D.S. Levashov** ATYPICAL FRACTIONATION OF RARE EARTH ELEMENTS IN ZIRCON: THE TETRAD EFFECT *(Institute of Precambrian Geology and Geochronology RAS, St. Petersburg)*
09:55 – 10:10	**A.V. Naryzhnova, N.N. Kruk** COMPOSITION AND MINERALOGICAL FEATURES OF THE KUKULBEY COMPLEX RARE-METAL GRANITES IN EASTERN TRANSBAIKALIA (ON THE EXAMPLE OF SAKHANAY AND SOKTUY MASSIFS) *(V.S. Sobolev Institute of Geology and Mineralogy SB RAS, Novosibirsk)*
10:10 – 10:25	**M.N. Petrova, S.Yu. Petrov** EVOLUTION OF TRACE ELEMENT COMPOSITION OF ZIRCON FROM GRANITOIDS OF THE NORTHERN PART OF BALYGYCHAN-SUGOI RIFT DEPRESSION (MAGADAN REGION) *(A.P. Karpinsky Russian Geological Research Institute, St. Petersburg)*
Coffee break	
10:40 – 10:55	**N.Yu. Popov** MINERALOGICAL AND GEOCHEMICAL CHARACTERISTICS OF BASEMENT AND FRAMING OF CENOZOIC BASINS: A SOURCE OF STRATEGIC ELEMENTS IN COAL DEPOSITS *(Far East Geological Institute FEB RAS, Vladivostok)*
10:55 – 11:10	**A.A. Rusak, T.I. Shchekina** COMPARISON OF PHASE RELATIONSHIPS IN A MODEL GRANITE SYSTEM WITH ADDED FLUORINE AND LITHIUM AND NATURAL CRYOLITE-CONTAINING RARE-METAL GRANITES *(Vernadsky Institute of Geochemistry and Analytical Chemistry, Moscow)*
11:10 – 11:25	**E.V. Stetskaya** GEOCHEMICAL CHARACTERISTICS OF CRUSTAL AND MANTLE ECLOGITIC ZIRCON FROM XENOLITHS OF V. GRIB KIMBERLITE PIPE AND MARUN-KEU COMPLEX) *(Institute of Precambrian Geology and Geochronology RAS, Empress Catherine II Saint Petersburg Mining University, Saint Petersburg)*

11:25 – 11:40	**A.Yu. Lebedev, I.A. Alexandrov, V.V. Ivin, M.V. Kiselev** COMPARISON OF GEOCHEMICAL FEATURES OF LATE CRETACEOUS GRANITOIDS OF THE MIAO-CHAN VOLCANIC-PLUTONIC AREA (KHABAROVSK REGION) *(Far East Geological Institute FEB RAS, Vladivostok)*
11:40 – 11:55	**M.V. Kiselev, I.A. Alexandrov, A.Yu. Lebedev** GEOCHEMISTRY OF LATE CRETACEOUS IGNEOUS ROCKS FROM THE EVUR VOLCANIC-PLUTONIC AREA (KHABAROVSK REGION) *(Far East Geological Institute FEB RAS, Vladivostok)*
11:55 – 12:10	**V.V. Ivina, V.V. Ivin** PETROGRAPHIC FEATURES OF THE HOST ROCKS OF THE RARE METAL SOBOLIKHA DEPOSIT (PRIMORYE) *(Far East Geological Institute FEB RAS, Far Eastern Federal University, Vladivostok)*
Lunch	
SESSION 4: "Metallogeny of mineral deposits" Chair: Academician of RAS N.A. Goryachev	
13:10 – 13:25	**S.N. Sychev, S.V. Petrov** MANTO-TYPE AGYNDZHA DEPOSIT IN THE OMULEVKA MOUNTAINS: GEOLOGICAL STRUCTURE AND ORE MINERALIZATION *(St Petersburg State University, A.P. Karpinsky Russian Geological Research Institute, Saint Petersburg)*
13:25 – 13:40	**E.V. Gorobeyko, E.A. Vakh, A.V. Vetoshkina, A.M. Revenko** RARE EARTH ELEMENTS IN ROCKS OF THE SHANUCH COPPER-NICKEL DEPOSIT (KAMCHATKA) **(***Far East Geological Institute FEB RAS, Vladivostok)*
13:40 – 13:55	**D.V. Tikhomirov, A.N. Golich, V.P. Molchanov** ORIGIN OF CARBON-BEARING MATERIAL OF BASIC AND ULTRABASIC ROCKS FROM THE ARIADNOE MASSIF (PRIMORYE, RUSSIA) *(Far East Geological Institute FEB RAS, Vladivostok)*
13:55 – 14:10	**V.N. Bakhtina, A.A. Grebennikova, K.N. Dobroshevsky, D.G. Fedoseev, N.A. Goryachev** PHYSICO-CHEMICAL CONDITIONS OF ORE FORMATION AND MINERALIZATION OF THE MALINOVSKOE DEPOSIT (SOUTHERN SIKHOTE-ALIN) *(Far East Geological Institute FEB RAS, Vladivostok, N.A. Shilo North-East Interdisciplinary Scientific Research Institute FEB RAS, Magadan)*
14:10 – 14:25	**V.V. Gusarova, V.V. Ratkin** THE ROLE OF FLUIDS IN THE FORMATION OF THE YUZHNOE SB-AG-PB-ZN ORE DEPOSIT (KRASNORECHENSKY ORE DISTRICT, SIKHOTE-ALIN) *(Far East Geological Institute FEB RAS, Vladivostok)*
Coffee break	
15:25 – 17:00	**Geological excursion in the area of the Priboinaya Bay along the coastal outcrops of the Cambrian Tafuin granitoid massif**
September 19	
Plenary Session	
09:00-09:20	**Yu.V. Gensiorovsky, Ph.D.** HAZARDOUS EXOGENOUS GEOLOGICAL PROCESSES IN THE FAR EASTERN FEDERAL DISTRICT OF RUSSIA *(Sakhalin Branch of the Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk)*
09:20-09:40	**A.V. Konovalov, Ph.D.** TECTONIC ASPECTS IN PREDICTING SEISMIC IMPACT *(Sakhalin Branch of the Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk)*

SESSION 5: "Geoecology, hydrogeology, hazardous natural and anthropogenic processes"
Chair: I.V. Bragin, Ph.D.

09:40 – 09:55	**A.A. Amosova, V.M. Chubarov, S.N. Prosekin** APPLICATION OF X-RAY FLUORESCENCE ANALYSIS OF SNOW COVER SOLID PHASE FROM THE INDUSTRIAL AREAS IN ASSESSING TECHNOGENIC IMPACT OF ALUMINIUM, AND HEAT AND POWER PLANTS ON THE URBAN TERRITORIES *(A.P. Vinogradov Institute of Geochemistry SB RAS, Irkutsk)*
09:55 – 10:10	**N.V. Ivanova** SPATIAL DEVELOPMENT OF URBAN TERRITORIES IN DIFFICULT ENGINEERING AND GEOLOGICAL CONDITIONS AS IN THE CASE OF THE CITY OF IRKUTSK *(Institute of the Earth's Crust SB RAS, Irkutsk National Research Technical University, Irkutsk)*
10:10 – 10:25	**D.A. Isakova, Yu.V. Koudryashova, T.L. Chizhova, V.A. Ignateva, M.G. Patrushev** ORIGIN AND CONCENTRATIONS OF POLYCYCLIC AROMATIC HYDROCARBONS IN SEDIMENTS OF THE PETER THE GREAT BAY (SEA OF JAPAN): ECOLOGICAL RISK ASSESSMENT *(V.I. Il'ichev Pacific Oceanological Institute FEB RAS, Far Eastern Federal University, Vladivostok)*
Coffee break	
10:40 – 10:55	**A.E. Kopylova** ASSESSMENT OF GEOECOLOGICAL CONSEQUENCES OF DISPOSING SUBSTANDARD ORES OF THE MALMYZH DEPOSIT NEAR THE AMUR RIVER FLOOD PLAIN *(Mining institute FEB RAS, Khabarovsk)*
10:55 – 11:10	**K.V. Prokhorov, Yu.A. Ozaryan** STATE OF TECHNOGENIC WASTELAND AND POSSIBILITIES OF EXTRACTING VALUABLE COMPONENTS FROM TECHNOGENIC MATERIAL OF THE SOLNECHNY MINING AND PROCESSING PLANT *(Mining institute FEB RAS, Khabarovsk)*
11:10-11:25	**S.M. Sofronova** STUDY OF THE INFLUENCE OF METALS IN RADIOACTIVE WASTE ON URANIUM ACCUMULATION *(V.S. Sobolev Institute of Geology and Mineralogy SB RAS, Novosibirsk)*
11:25 – 11:40	**A.A. Tereshkin, P.A. Anikin, D.S. Migunov, M.I. Rasskazov** TECHNICAL MEANS AND SOFTWARE FOR MONITORING GEODYNAMIC PROCESSES AT MINES IN THE FAR EAST *(Mining institute FEB RAS, Khabarovsk)*
11:40 – 11:55	**Yifeng Qin, Shangjiu Meng, I.Yu. Rasskazov, Zhiyuan Sun, Miao Wang, Hailong Mu, Wei Zhu, A.A. Sobolev** ERROR CORRECTION METHOD FOR GROUND MONITORING SENSORS FOR MINING EARTHQUAKE GROUND VIBRATION CONSIDERING DEPLOYMENT DIRECTION *(Heilongjiang University of Science and Technology, China-Russia Intelligent Mine Joint Laboratory, Harbin, China)*
Lunch	
12:55 – 13:10	**E.A. Tsvetkova, V.I. Poletaeva, M.V. Pastukhov** CHEMICAL COMPOSITION OF THE MELT WATER ACCUMULATED IN THE USOLYE-SIBIRSKOE INDUSTRIAL ZONE *(A.P. Vinogradov Institute of Geochemistry SB RAS, Irkutsk)*
13:10-13:25	**G.B. Hommatlyyev, V.I. Poletaeva, M.V. Pastukhov** AL, MN, AND FE CONCENTRATIONS IN THE WATER OF IRKUTSK RESERVOIR *(A.P. Vinogradov Institute of Geochemistry SB RAS, Irkutsk)*
13:25 – 13:40	**A.A. Pavlov, I.V. Bragin, G.A. Chelnokov, N.A. Kharitonova, B.I. Chelnokova** HYDROGEOLOGICAL AND GEOCHEMICAL FEATURES OF MINERAL WATERS OF THE OTSHEL'NIK DEPOSIT, KHABAROVSK REGION *(Far East Geological Institute FEB RAS, Vladivostok)*
13:40 – 13:55	**V.A. Pellinen, E.N. Solovyeva, T.Yu. Cherkashina** GEOECOLOGICAL MONITORING OF ANTHROPOGENIC SOIL POLLUTION ON THE OLKHON ISLAND, LAKE BAIKAL *(Institute of the Earth's Crust SB RAS, Irkutsk)*

Poster Session	
	S.A. Rylova, O.V. Bergal-Kuvikas SPATIAL AND TEMPORAL CHARACTERISTICS OF VOLCANISM IN SOUTH KAMCHATKA *(Institute of Volcanology and Seismology FEB RAS, Petropavlovsk-Kamchatsky)*
	V.A. Pellinen, A.A. Svetlakov, S.V. Alekseev NEW GEOCHEMICAL DATA ON THE GROUNDWATER AND LAKES OF THE BARGUZIN DEPRESSION BASED ON SAMPLES COLLECTED IN 2022-2024. *(Institute of the Earth's Crust SB RAS, Irkutsk)*
CLOSING CEREMONY. General discussion.	
19:00	Gala Dinner
September 20	
14:00	Departure from the expedition base of FEGI FEB RAS to Vladivostok (to FEG Institute)