



The Second All-Russian symposium with  
international participation  
**Continental rifting,  
accompanying processes**  
Irkutsk, August, 20-23, 2013  
**Preliminary program**



## **PLENARY SESSION**

### **WELCOMING REMARK**

*GLADKOCHUB D.P.*

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### **THE RIFTING ACADEMICIANS N.A. LOGATCHEV AND E.E. MILANOVSKY –SCIENTISTS, COLLEAGUES, FRIENDS**

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### **THE ORIGIN AND EVOLUTION OF CONTINENTAL RIFT SYSTEM IN EAST ASIA**

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### **ROTATION FACTOR AND GLOBAL TECTONICS OF THE GREENSTONE BELTS SYSTEM IN THE EARLY EARTH**

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### **RIFT ORIGIN OF INTRACONTINENTAL BASINS WITH ANOMALOUSLY THIN CONSOLIDATED CRUST**

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### **RIFTING AND OLD CRUST – THE BAIKAL VERSUS EAST AFRICAN (WESTERN BRANCH) RIFT SYSTEM**

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*Royal Museum for Central Africa, Tervuren*

### **DEEP GEODYNAMICS AND GEOSTRUCTURE FORMATION OF THE ARCTIC OCEAN**

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**THE BAIKAL AND SHANXI RIFT SYSTEMS: TECTONOPHYSICAL RELIATIONSHIPS OF EARTHQUAKE EPICENTER AND HYPOCENTER FIELDS**

<sup>1</sup>SHERMAN S.I., <sup>2</sup>MA JIN, <sup>1</sup>DEM'YANOVICH V.M., <sup>2</sup>GUO YANSHUANG

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**THE BAIKAL RIFT ZONE: MORPHOTECTONICS AND SEISMIC REGIME**

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**1. Evolution of processes related by continental rifting in the Earth's history**

**CONTINENTAL RIFTING IN THE PREHISTORY OF THE PHANEROZOIC OCEANS**

RUSIN A.I., KRASNOBAEV A.A., RUSIN I.A.

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**PLUME EVENTS IN THE URALS AND THEIR CONNECTIONS WITH SUBGLOBAL EPOCHS OF RIFTING**

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**STRUCTURE OF THE SOUTH-KARA RIFT SYSTEM**

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**GEODYNAMIC EVOLUTION OF THE PATOM-VILYUI AVLAKOGEN (SIBERIAN PLATFORM)**

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**THE ROLE OF SUBDUCTION AND RIFTING IN MANTLE LITHOSPHERE FORMATION IN THE NORTHEASTERN PART OF THE SIBERIAN CRATON**

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**MIDDLE PALEOZOIC RIFTING AND CONTAMINENT MAGMATISM OF THE EASTERN SIBERIAN CRATON**

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***PALEOMAGNETISM OF MIDDLE PALEOZOIC KIMBERLITES AND TRAPS OF THE VILUY PALEORIFT SYSTEM***

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***SILLOGENESIS IN CONTINENTAL PALEORIFTS AND RIFT-LIKE STRUCTURES OF THE MINUSINSK TROUGH (WESTERN SIBERIA)***

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***GEOCHEMICAL FEATURES OF LOWER CARBONIFEROUS BASALTIC MAGMATISM OF THE MAGNITOGORSK MEGAZONE***

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***DIKES OF THE HAYES ISLAND (FRANZ JOSEF LAND ARCHIPELAGO) AND THEIR GEODYNAMIC INTERPRETATION***

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***CONTINENTAL RIFTING IN WESTERN SIBERIA AND RELATED MAGMATISM***

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***MEZOZOIC-CENOZOIC MAGMATISM OF THE CHIKOI-KHILOK RIFTOGENIC VALLEY***

GORDIENKO I.V., BADMATSYRENOVA R.A., SANZHIEV A.M.

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***EVOLUTION OF TECTONOMAGMATIC PROCESS IN TYPOMORPHIC RIFT OF THE CENTRAL KAMCHATKA DEPRESSION***

ERMAKOV V.A.

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***RIFTOGENIC NATURE OF CENOZOIC ACID VOLCANISM AT THE EASTERN ACTIVE MARGIN OF ASIA***

POPOV V.K.

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**2. Stratigraphy, lithology and geochronology of sedimentary and volcanogenic-sedimentary series in continental rifts**

**RIFTING AND UNIQUENESS OF LAKE BAIKAL**

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**PENEPLAINS, WEATHERING CRUST, AND RIFTING**

MATS V.D.

Karmiel, Israel

**THE AGE OF BAIKAL GEOLOGICAL PHENOMENA**

MATS V.D.

Karmiel, Israel

**PARTICULAR QUALITIES OF THE MIOCENE STAGE IN THE BASINS OF THE TATAR STRAIT**

NECHAYUK A.E.

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**INVERSIONS IN THE BAIKAL RIFT ZONE MORPHOTECTONICS**

SHCHETNIKOV A.A.

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**THE PALEONTOLOGICAL SUBSTANTIATION OF KEY CROSS-SECTIONS OF THE LATE PLEISTOCENE IN THE TUNKA RIFT VALLEY (SOUTHWESTERN BAIKAL REGION)**

SHCHETNIKOV A.A., KLEMENTIEV A.M., SIZOV A.V., FILINOV I.A.

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**PLIOCENE-PLEISTOCENE SMALL MAMMALS OF THE TRANSBAIKALIA AND THEIR SIGNIFICANCE FOR STRATIGRAPHY AND ENVIRONMENTAL RECONSTRUCTION**

ALEKSEEVA N.V., ERBAEVA M.A., GRYDINA M.G.

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**ON THE FORMATION OF SAND MASSIFS OF THE MUYA-KUANDA BASIN: NEOTECTONICS, LITHOLOGY, STRATIGRAPHY (THE NORTHEAST FLANK OF THE BAIKAL RIFT ZONE)**

KOLOMIETS V.L.

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**INTERPRETATION OF LOOSE DEPOSITS DEFORMATION IN SEISMIC REGIONS**

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**STRUCTURE FEATURES OF THE PRIMORSKY FAULT ACCORDING TO THE MAGNETIC SURVEY DATA**

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**RESULTS OF THE MORPHOMETRIC ANALYSIS OF RIFT ZONES OF VENUS (ATLA, BETA-FEBA) AND EARTH (EAST AFRICA)**

GUSEVA E.N.

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**3. Conditions of formation of carbohydrate and other mineral deposits in the rift structures**

**GEOCHEMISTRY OF NITROGEN AND CARBON IN «WATER-ROCK» SYSTEM INTO BAIKAL TYPE DEPRESSIONS**

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**LARGE-SCALE FORMATION OF OIL AND GAS – INEVITABLE ACCOMPANYING PROCESS OF THE BAIKAL RIFT ONTOGENESIS**

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**RIFTING AND FORMATION OF THE CENOZOIC SEDIMENTARY BASINS CONTAINING OIL AND GAS IN THE OKHOTSK SEA REGION**

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**SEISMICITY AS A NATURAL PHENOMENON FOR MINERAL DEPOSITS OF FLUID GENESIS**

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MELNIK E.A., SUVOROV V.D., MISHENKINA Z.R., PAVLOV E.V.

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**STRUCTURAL FEATURES, LITHOFACIES CHARACTERISTICS AND PETROLEUM POTENTIAL OF RIPHEAN-VENDIAN DEPOSITS OF IRKINEEVO-CHADOBETSKIY INTRACONTINENTAL PALEORIFT**

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**GENESIS OF THE KHAPCHAGAIISKY AND LOGLORSKY RISINGS OF THE VILYUISKY SYNECLISE**

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**STRIKE-SLIP TECTONICS OF THE SMALL HINGGAN RIFT ZONE, PRIAMURIE**

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**ROLE OF RIFTING IN FORMATION OF SULPHIDE DEPOSITS**

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**INTERPRETATION OF THE TRANSIENT ELECTROMAGNETIC METHOD DATA BASED ON THE APPROXIMATE METHOD OF DIRECT CHRISTENSEN'S SIMULATION COMBINED WITH OCCAM'S INVERSION**

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**4. Monitoring of modern processes in the areas of continental rifting, prognosis of geological hazards.**

**MODERN ACTIVITY OF SEISMIC BELTS OF YAKUTIA**

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**HELIUM IN GROUNDWATER OF SOUTHERN PRIBAIKALIE AS PRECURSOR OF EARTHQUAKES**

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**CONTINUOUS MONITORING OF CRUSTAL DEFORMATION IN MONGOLIA**

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**АКТИВНЫЕ РАЗЛОМЫ ВБЛИЗИ СТОЛИЦЫ МОНГОЛИИ ГОРОДА УЛААНБААТАР**

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**AZIMUTAL DIRECTION OF SEISMIC PROCESS IN SOURCE ZONES OF STRONG EARTHQUAKES IN THE HOVSGOL REGION**

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**СРАВНИТЕЛЬНЫЙ АНАЛИЗ СЕЙСМИЧЕСКОГО РАЙОНИРОВАНИЯ ГОРОДОВ ИРКУТСК И ЭРДЭНЭТ**

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**THE STUDY OF SEISMICITY ENERGY STRUCTURE FOR THE SOUTHWESTERN PART OF THE BAIKAL RIFT SYSTEM**

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**SHEAR VELOCITIES IN THE EARTH'S CRUST OF THE BAIKAL RIFT ACCORDING TO THE NEAR EARTHQUAKE DATA**

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**UNCERTAINTY OF PRIBAYKALYE EARTHQUAKES MOMENT TENSOR DETERMINATION FROM THE GCMT-CATALOG DATA**

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**FEATURES OF DEVELOPMENT OF LARGE SEISMIC ACTIVIZATIONS IN THE NORTHERN PRIBAIKALIE (1997–2012)**

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**THE AUTOMATIC SYSTEM OF MONITORING OF SEISMICITY OF THE BAIKAL RIFT ZONE**

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**SIMULATION OF LAND SUBSIDENCE DUE TO GROUNDWATER EXPLOITATION IN HANOI (VIETNAM) USING METHODS OF MULTIFACTORIAL CORRELATION ANALYSIS AND FINITE ELEMENT TECHNIQUE**

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**5. Mantle and crust of rift zones**

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**THE BAIKAL RIFT SYSTEM BETWEEN THE GEODYNAMIC PROVINCES OF BROKEN RODINIA AND CLOSED FANEROZOIC PALEOOCEANS: FENOMENOLOGY OF YOUNG MANTLE MAGMATIC SOURCES**

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**NEOGENE ALKALINE BASALTIC VOLCANISM OF DARKHAT BASIN (NORTHERN MONGOLIA): NEW GEOLOGICAL AND GEOCHEMICAL DATA**

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**LATE CENOZOIC BASALTOID VOLCANISM OF THE OKONON PLATEAU (TOKINSKY STANOVIK) PETUKHOVA L.L.**

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**DEEP STRUCTURE OF MANTLE IN CENTRAL ASIA ACCORDING TO THE GROUP AND PHASE VELOCITIES**

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**ON THE EARTHQUAKE ENERGY CONTRIBUTION IN HEAT LOSS OF EARTH CRUST OF THE BAIKAL REGION**

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**THE GEOTHERMAL PARAMETERS IN TROUGHS OF THE NORTHERN PART OF SVALBARD PLATE ERMAKOV A.V.**

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**FEATURES OF SEISMIC WAVE ATTENUATION IN CONTINENTAL RIFT ZONES**

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**RESEARCH OF THE EARTH'S CRUST AND UPPER MANTLE OF THE SOUTHERN PART OF THE SAYAN-BAIKAL FOLDED AREA BY RECEIVER FUNCTIONS TELESEISMIC METHOD**



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**MIGRATION WAVES OF THE EARTHQUAKE FOCI AND STRUCTURE OF THE UPPER MANTLE**

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**THE INFLUENCE OF ANCIENT GRANITE TECTONICS ON THE CENOZOIC STRUCTURE (ON EXAMPLE OF THE NORTH-MUNA TONNEL AREA)**

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**THE DEEP LITHOSPHERIC STRUCTURES IN THE NORTH OF THE URAL**

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## **6. Geodynamic models**

**RIFTING: STRUCTURAL CINEMATICS EXPRESSION AND TECTODYNAMIC CONDITIONS OF ITS MANIFESTATION**

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**NUMERICAL MODELING OF MOUNTAIN SYSTEMS AND THEIR ROOTS**

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**PARAGENES OF THE LATE CENOZOIC STRUCTURES AND STRESS TECTONIC FIELD IN THE AREA OF THE NORTH HANGAI SHEAR (NORTHERN MONGOLIA)**

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**MANTLE FLUIDS: MECHANISM OF MIGRATION, AND INFLUENCE ON THE CONTINENTAL LITHOSPHERE**

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**MODELING OF CONTINENTAL RIFTING ON EXAMPLE OF THE SIBERIAN PLATFORM BASINS**

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