



4th International Students Geological Conference
April 19th – 21st, 2013, Brno, Czech Republic

CONFERENCE PROGRAMME

Department of Geological Sciences, Faculty of Sciences, Masaryk University
Kotlářská 267/2, Brno 611 37, Czech Republic





4TH INTERNATIONAL STUDENTS GEOLOGICAL CONFERENCE
APRIL 19th – 21st, 2013, MASARYK UNIVERSITY, BRNO

FRIDAY, APRIL 19, 2013

10:00-18:00	Registration	Faculty of Science, Building No. 12	Entrance Hall
15:00-18:00	Lectures and workshop	Faculty of Science, Building No. 03 Faculty of Science, Building No. 12	G1 AULA

SATURDAY, APRIL 20, 2013

7:30-8:30	Registration	Faculty of Science, Building No. 12	
8:30-9:00	Opening of the Conference	Faculty of Science, Building No. 12	AULA
9:00-12:30	Conference Sessions	Faculty of Science, Building No. 03	G1
		Faculty of Science, Building No. 11	IBA1
12:45-13:45	Lunch	Faculty of Science, Building No. 12	AULA
		Kometa Pub, Kounicova 20	
14:00-15:45	Conference Sessions	Faculty of Science, Building No. 03	G1
		Faculty of Science, Building No. 11	IBA1
15:45-17:00	Poster Sessions	Faculty of Science, Building No. 12	AULA
		Faculty of Science, Building No. 03	Gp1
		Faculty of Science, Building No. 11	1 st floor
		Faculty of Science, Building No. 12	Entrance Hall
17:00-18:15	Conference Sessions	Faculty of Science, Building No. 03	G1
		Faculty of Science, Building No. 11	IBA1
		Faculty of Science, Building No. 12	AULA
19:00-???	Conference Party (refreshment, prizes, and fun)		
20:00	Awarding the Best Contributions	Melodka Music Club, Kounicova 20	

SUNDAY, APRIL 21, 2013

9:00	Departure to Field Trips	Meeting point for FT1 and FT2: parking at the intersection of Veveří and Hrnčířská streets (next to the Faculty of Law)
up to 18:00	Arrival from Field Trips	Meeting point for FT4: Main entrance to the Faculty of Science, Kotlářská 267/2



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8:30 – 9:00 | **Josef ZEMAN, Head of the Department of Geological Sciences:** Opening of the Conference

BUILDING No 12: AULA

ORAL PRESENTATIONS: SESSION 1 – PETROLOGY, MINERALOGY AND GEOARCHAEOLOGY

BUILDING No 12: AULA

9:00 - 9:15	Lenka DZIKOVÁ , Roman SKÁLA, Ladislav STRNAD, Dušan HEMZAL, Jaromír LEICHMANN, Milan TRNKA Heterogeneous Moldavites from the Central European Strewn Field	12:45 - 13:45	LUNCH
9:15 - 9:30	Jakub VÝRAVSKÝ Recrystallization of Sc, Y and U Enriched Zircon from the Dolní Bory Pegmatites, Czech Republic	14:00 – 14:15	Yuliia NYKANOROVA Metasomatic Zonation Geochemical Features of Linear Carbonatite Complexes (at the Example of Penchenga Massif, Yenisei Range, and Chernigovka Massif, Ukrainian Shield)
9:30 - 9:45	Denis MARCHENKOV , Sergey SHNYUKOV, Irina LAZAREVA Small Pegmatite Bodies from North-Western Part of Ukrainian Shield: Actuality of Research, Structure, Mineral and Element Composition	14:15-14:30	Balász BENEI, Krisztián TÓTH, Sándor JÓSSZA Spherulitic Rhyolite Pebbles from Pleistocene Debris of Palaeo-Danube – Preliminary Provenance Case Study
9:45 - 10:00	Eva ŠVECOVÁ , Zdeněk LOSOS Mineral Assemblage and Chemistry of Xenotime-(Y) from Písek Beryl-Columbite Pegmatites	14:30 – 14:45	Tereza JANDOVÁ , Jakub TRUBAČ, David DOLEJŠ Crystallization Mechanisms in Highly Evolved Boron-Rich Granitic Melts of the Říčany Pluton, Czech Republic
10:00 - 10:15	Ivo MACEK , Milan NOVÁK, Radek ŠKODA Distinct Compositional Evolutions of Primary to Late Tourmalines from Contaminated Granitic Pegmatites; Trends towards Similar Composition	14:45-15:00	Viktorii OSYPENKO Petrographic Characteristic of Proskurov Massif Rocks (Ukrainian Shield)
10:15 - 10:30	Nadiia PAVLOVA Biotite from Granitoids of Chernigov Fault Zone (Azov Block of the Ukraine Shield)	15:00-15:15	Iva PETRÁŇOVÁ Genesis of the „Glimmerite“ Rock Related to the Hrubšice Peridotite
10:30 – 10:45	Martin KONTÁR , Marek SLOBODNÍK Fluid Inclusions from Crystal Quartz Artefacts and Outcrop of the Eastern Alps	15:15-15:30	Ievgeniia MOROZOVA , Olena BUBNOVA, Maksym MOROZOV Microtectonical Research of the Granitoids of the Novoykrainka and Kirovograd Complexes of the Ukrainian Shield
10:45 - 11:15	COFFEE BREAK		
11:15 - 11:30	Tomáš URUBEK , Zdeněk DOLNÍČEK Fluid Inclusions and Chemical Composition of Analcimes from Magmatic Rocks of Teschenite Association (Outer Western Carpathians, Czech Republic)	15:30-15:45	Sven HÖNIG , Radek ŠKODA, Renata ČOPJAKOVÁ, Milan NOVÁK, Jaromír LEICHMANN Behaviour and Residence of Yttrium and Rare Earth Elements within Anorogenic Granite Documented on Layered Dykes of Hlína Suite, Prevariscian Brno Batholith, Czech Republic)
11:30 - 11:45	Kateřina ŠVECOVÁ , Jaromír LEICHMANN, Karel BREITER Cathodoluminescence of Quartz and Trace Elements – Is There Any Connection?	15:45 – 17:00	COFFEE BREAK AND POSTER SESSIONS
11:45 - 12:00	Kamila NOWAK The Impact of Radionuclides Concentration in Building Materials on the Natural Background Gamma Radiation in the Buildings Made of Bricks and Prefabricated Concrete	17:00 – 17:15	Tomáš NOVOSÁD Garnet Bearing Granites of Brunovistulicum
12:00 – 12:15	Petra JAKUBOVÁ , Jaromír LEICHMANN Characteristics of the Uranium Anomaly in the Southern Part of the Boskovice Furrow	17:15 – 17:30	Michael UNTERWURZACHER , V. SCHUMACHER, Ulrich OBOJES, Anita THALER Sterzing (Ratschnings) Marble – Use of an Important Natural Stone from Prehistoric Until Presents Times
12:15 - 12:30	Anatolii CHERNOV Petrophysical Parameters of Dikes and Their Formation Conditions (Crimea, Ukraine)	17:30 – 17:45	Radka DRÁPALOVÁ Cenozoic Basaltoids as Raw Material in Prehistory
		17:45 – 18:00	Pavčina FRÝBOVÁ , Zsolt BENDŐ Serpentinities as Raw Materials for Polished Artefacts
		18:00 – 18:15	Lenka VOŽDOVÁ , Antonín PŘICHYSTAL Geology and Petrography of Revaites



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POSTER SESSION 1: PETROLOGY, MINERALOGY, AND GEOARCHAEOLOGY

BUILDING No 12: Entrance Hall

- A1 **Volodymyr BELSKYY**
The Chemical Composition of Allanite of Ukrainian Shield, as Tectonic Conditions Indicator
- A2 **Elena DOBRETSOVA**, Kirill BOLDYREV, Elena BOROVIKOVA
Infrared Spectroscopy and the Structure of Huntite-like Aluminium Borates $RAI_3(BO_3)_4$, where R = Y, Ce - Yb
- A3 **Hermann M. DRESCHER**, Thor H. HANSTEEN
Magma Chamber Processes Prior to the 2008 and 2009 Eruptions of Llaima, Chile
- A4 **Yulia EGOROVA**
The Geochemical and Isotopic Composition of Neoproterozoic Sanukitoids from Eastern Karelia, Baltic Shield
- A5 Aleksandr KREMENETSKY, **Natalia GROMALOVA**, Pavel REKANT
Morphostructural Features of Zircon Populations of Different Age from Basic Rocks of the Arctic Ocean Rises
- A6 **Markéta JAROŠOVÁ**, Lenka LISÁ, David PARMA
Infillings of La Tène and Hallstatt Sunken Houses near Syrovice and Horákov
- A7 **Ekaterina KAIGORODOVA**, Vladislav PETROV
Raduzhnoe – Epithermal Volcanic-Associated Breccia-Hosted Au-Ag Deposit (Low-Sulfidation Type)
- A8 **Bartosz KARYKOWSKI**, Axel HOFMANN
The Barberton Drilling Project (Buck Reef Chert Core BARB3)
- A9 **Galina KIRIUKHINA**, Olga YAKUBOVICH, Olga DIMITROVA
Rb-Elpasolite, Rb_2NaAlF_6 : a Possible Mineral Species?
- A10 **Magdalena MACHOWSKA**
Characteristic of Basaltoids from Blue Dyke, King George Island (South Shetland Islands, Western Antarctic)
- A11 **Ondřej POUR**, Kryštof VERNER
Fabrics and Emplacement of Weinsberg-type Granitoids (Moldanubian Plutonic Complex)
- A12 **Kseniia RUDENKO**, Kateryna DEREVSKA
Geological Heritage of Upper Proterozoic (Volhynian Region, Ukraine): Monitoring and Proposition
- A13 **Azam SOLTANMOHAMMADI**, Mohamad RAGHOSHAY, Mohsen ZADSALEH
Detection of Silica-Undersaturated Igneous Rocks by Using Remote Sensing Techniques: a Case Study in the Salavat Mountain, NW of Iran
- A14 Mohsen ZADSALEH, **Azam SOLTANMOHAMMADI**, Mohamed RAHGOSHAY
Separation between Intermediate and Advanced Argillic-Altered Zones by Using Aster Data in Swir and Tir Region
- A15 **Csaba VÍGH**, Péter HORVÁTH, Sándor JÓZSA, Géza NAGY
Moldanubian Granulites from Pleistocene Gravel Terraces of Paleo-Danube from Hungary
- A16 **Rafał WĘGLORZ**
Olivines of Klodzko Land
- A17 **Vojtěch WERTICH**
Non-destructive Laboratory Assays of Magnetic Susceptibility and Its Correlation with Measurement by Portable Kappameter. A Case study: Stone Raw Material, Artifacts
- A18 **Martin ŠTEVKO**, Juraj ŽITŇAN
SEG chapter Bratislava, Slovakia
- A19 **Luboš VRTIŠKA**
SGA chapter Prague, Czech Republic



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ORAL PRESENTATION – SESSION 2: GEOCHEMISTRY, HYDROGEOLOGY, ENVIRONMENTAL GEOLOGY, ECONOMIC GEOLOGY, APPLIED GEOLOGY

BUILDING No 03: G1 ROOM

9:00 - 9:15	Pavla FILIPSKÁ , Josef ZEMAN, Jan FILIP Interaction of Nanoscale Zero-Valent Iron Particles with Water	14:30 - 14:45	Kseniya KANAKOVA Seismic and Geological Criteria of Petroleum Potential Prediction of Paleozoic Deposits of Western Siberia South-East Regions
9:15 - 9:30	Marika JABŮRKOVÁ , Jiří FAIMON The Impact of Coniferous Forest Soils on Karst Processes	14:45 - 15:00	Marek GOLDBACH Deposition History of Autochthonous Paleogen in Nesvačilka Paleovalley
9:30 - 9:45	Marek LANG , Jiří FAIMON Does External Wind Impact on the Speleothem Growth in Cave?	15:00 - 15:15	Ekaterina MARKINA Oil Composition and Facies Conditions Reservoirs Accumulation at Vankor and Suzun Fields of Pur-Tasovska Ngo
9:45 - 10:00	Pavel PRACNÝ , Jiří FAIMON Hypothetical Soil/Epicarstic P _{CO2} Derived from Dripwater Composition (Punkva Caves, Moravian Karst)	15:15 - 15:30	Ekaterina SURIKOVA Tectonic Aspects of Giant Gas Fields Formation in the North West Siberian Plate
10:00 - 10:15	Nikola KLANICOVÁ , Josef ZEMAN Experimental Study of Regular Spatial Pattern in Geological Objects	15:30 - 15:45	Piotr KOWALSKI , Marek MICHALIK Zeolitic Adsorbents Synthetized from Fly Ash Received in Power Industry
10:15 - 10:30	Antoine WARIN , Irena ŠUPÍKOVÁ, Josef ZEMAN Zlaté Hory Mine Water: Evolution after Closure of the Site	15:45 - 17:00	COFFEE BREAK AND POSTER SESSIONS
10:30 - 10:45	Edita JEŘÁBKOVÁ Mine Water Geochemistry of Kaňk Ore Deposit with Special Respect on the As Mobility	17:00 - 17:15	Darya KONTOROVICH Seismic Criteria for Predicting Reservoir Quality and Delineating Complex Traps in Oxfordian Sands of the Southeastern West Siberia
10:45 - 11:15	COFFEE BREAK	17:15 - 17:30	Stepan USTINOV , Vladislav PETROV, Valeriy POLUEKTOV, Vsevolod PROKOF'EV Reconstruction of Ore Forming Conditions during Various Events Of Deformation of Granitoids at the Antei Uranium Deposit Using Fluid Inclusion Planes
11:15 - 11:30	Jarmila POSPÍŠILOVÁ Study of Saturation and Sedimentation of Bentonite	17:30 - 17:45	Mohamed Abd El MONSEF , Marek SLOBORNÍK Gold Mineralization Related to Hosting-Granitic Intrusion at Fatifa Area, Eastern Desert of Egypt
11:30 - 11:45	Eliška DUCHKOVÁ , Josef ZEMAN Stability of Bentonite Colloids	17:45 - 18:00	Maria KAKURINA , Svetlana BALYKOVA Influence of the Swelling and Shrinkage Cycles on the Properties of Upper Carboniferous Clays
11:45 - 12:00	Alena BEREZOVSKA Spatial Distribution of Heavy Metals in Bottom Sediments of the North-Western Black Sea Shelf	18:00 - 18:15	Abdalla M. M. MUSBAH Application of Gravity Method in Geological Mapping
12:00 - 12:15	Olga KOSTENKO Investigation of the Source Rock of the Tol'kinskiy trough of the West Siberian Basin		
12:15 - 12:30	Anastasia FOKINA Geochemical Analyses of the Hydrocarbon Gases from the Sediments Cores Recovered from the Central Barents Sea		
12:45 - 13:45	LUNCH		
14:00 - 14:15	Veronika KLUSOVÁ Using of Portable XRF for Analyses of Drill Cores From Oil and Gas Prospection		
14:15 - 14:30	Iva SEDLÁKOVÁ Organic Matter and Clay Minerals as Thermal Maturity Indicators in the Mikulov Marls (Czech Republic)		



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BUILDING № 03: Gp1 ROOM

- G1 **Katarína BORIOVÁ**, Martin URÍK, Slavomír, ČERŇANSKÝ, Peter MATÚŠ, Marek BUJDOŠ, Katarína GARDOŠOVÁ
Impact of Microbial Processes on Mobility of Trivalent Bismuth
- G2 **Jiří CEJPEK**
The Distribution of Rainfall and Hydrological Properties of Soils in Reclaimed and Unreclaimed Sites after Brown-Coal Mining
- G3 **Juliya DEMINA**, Yulia FROLOVA, Ivan POTRYASAEV
Engineering Geological Features of the Host Rocks in Lubavinskoe Gold Deposit (Transbaikalia)
- G4 **Sergiu DRAGUSANU**
Geologic and Mineralogic Preliminary Data on Eastern Sector of Roşia Montană Au – Ag Epithermal Deposit, Apuseni Mountains, Romania
- G5 **Pavla FILIPSKÁ**, Josef ZEMAN, Dalibor VŠIANSKÝ, Veronika KUBCOVÁ
Bentonite-Water Interaction: Chemical and Mineralogical Composition of B75 Bentonite and Porewater Chemistry
- G6 **Petra FŮRYCHOVÁ**, Rostislav MELICHAR, Ivan POUL
Prediction of Slope Deformation in Clay Soils in Brno Area
- G7 **Katarína GARDOŠOVÁ**, Martin URÍK, Marek BUJDOŠ, Michal HLODÁK, Peter MATÚŠ
Selenium Bioaccumulation in the Presence of Mineral Phases and Humic Acids
- G8 **Michal HLODÁK**, Martin URÍK, Peter MATÚŠ, Marek BUJDOŠ, Ingrid HAGAROVÁ, Katarína BORIOVÁ
Study of Bioaccumulation and Ecotoxicological Effects of Mercury in Hordeum Vulgare L. Grown in Mercury – Contaminated Soil under Laboratory Conditions
- G9 **Martin KNÍŽEK**, Eduard STRAKA, Jiří TLAMSA, Milan KÖSSLER
Geological Survey and the Implementation of Some Underground Construction in the Czech Republic
- G10 **Alexandra GOREVA**
Hydrogeological Conditions of Paleozoic Complex in Novoportovsk Oil and Gas Condensate Field
- G11 **Paulina KOTLAREK**
Dry Fracturing as a More Effective and Safe Method in Shale Gas Recovery
- G12 **Jaroslava KUBROVÁ**, Jan BOROVIČKA
Trace Elements in Ectomycorrhizae: Their Determination by INAA
- G13 **Olexandr LYTVYNOVYCH**
Thermoelectrical Properties of Pikroilmenits from Diamond-Pipe, Eastern Azov (Ukraine)
- G14 **Oleksandra MATVIENKO**, Iuliia VOITIUK
Ecological and Geochemical Estimation of Technogenic Pollution of the Territory of Kiev
- G15 **Anastasiia NESTERENKO**, Iryna BEZRODNA
Analysis of the Results of Petrophysical Research for Poor-Porous Hydrocarbon Reservoirs Mathematical Model Creation (on the Example of Zarichna Area Samples)
- G16 **Eduard POPENKO**
Determination of Selenium in Environmental Samples by Mass Spectrometry with Inductively Coupled Plasma
- G17 **Vojtěch ŠEŠULKA**, **Iva SEDLÁKOVÁ**, Ondřej BÁBEK
Geophysical Methods in Use for the Determination of Maar-Diatreme Structure near Lomnice Village, Czech Republic
- G18 **Svitlana VOITOVYCH**
Mine Waters as One of the Factors of Pollution of the Environment in Chervonohrad Mining Industrial Area
- G19 **Kateřina ŽALUDKOVÁ**, Josef ZEMAN
Contamination Mobility in the Copperbelt Surface Waters Considering Time Evolution



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ORAL PRESENTATIONS - SESSION 3: STRUCTURAL GEOLOGY, PALAEOZOOLOGY, SEDIMENTOLOGY, QUATERNARY GEOLOGY, GEOARCHAEOLOGY

BUILDING № 11: IBA1 ROOM

9:00 - 9:15	Jakub KRYL , Kryštof VERNER Structures and Fabrics of Selected Moldanubian Orthogneisses	14:15 – 14:30	Igor KOSENKO The Late Jurassic and Early Cretaceous Oysters (Bivalvia) from Siberia: Results of Systematic-Paleontological and Isotopic Research
9:15 - 9:30	Taras BRYNSKYI , Mykhaylo NAKAPELYUKH Stress and Strain State South-East Ukrainian Carpathians (by Joints and Slickensides Research)	14:30 - 14:45	Lumír SOLDÁN , Nela DOLÁKOVÁ Development of the Holocene Vegetation in the Czech Republic (Moravia) - Human Impact
9:30 - 9:45	Viktor V. SHEVCHUK, Andrii U. VASYLENKO Geodynamic Control Scheme of Neogene Volcanism in Ukrainian Carpathians	14:45 - 15:00	Radana MALÍKOVÁ , Martin IVANOV, Michaela VAŠINOVÁ GALIOVÁ Experimental Research on the Chemical Composition of Hydroxyapatite in Teeth and Bones
9:45 - 10:00	Lenka KOCIÁNOVÁ , Rostislav MELICHAR Orientation Analysis Tools for GIS	15:00 - 15:15	Kinga WINNICKA Some Factors Affecting Preservation of Bone Artefacts in Loess Soils - a Case Study from Kichary Nowe 2, SE Poland
10:00 - 10:15	Tamás BIRÓ Paleoflow Direction in Volcanogenic Mass-Flow Deposits Using a GIS-Based Photostatistical Method – a Case Study from the Visegrád Mountains, Hungary	15.15 - 15:30	Hana UHLÍŘOVÁ , Martin IVANOV Pohansko – Southern Bailey – Environmental and Socio-Economic Interpretation
10:15 - 10:30	Weronika ERDMANN Influence of Geomagnetic Field on the Origins and Evolution of Life on Earth	15:30 – 15:45	Ievgeniia GONYK , Antonina IVANINA Lithological and Palynological Subdivisions of Bug Suite of Lviv-Volyn Basin (Western Ukraine)
10:30 – 10:45	Dawid MAZUREK Limy Mud Infaunal Life in the Early Cambrian of Central Siberia		
10:45 - 11:15	COFFEE BREAK	15:45 – 17:00	COFFEE BREAK AND POSTER SESSIONS
11:15 - 11:30	Jan KRÓL Late Eocene-Early Oligocene Coral Bioconstructions from Transylvanian Basin (Romania): Preliminary Results	17:00 – 17:15	Ondřej KIELAR , Ondřej BÁBEK Sedimentation Rates and Stratigraphy of Recent Sediments in Oxbow Lakes of the River Morava, Eastern Part of the Czech Republic
11:30 - 11:45	Tomáš KUMPAN Ichthyolites and Echinoderms from the Famennian and Tournasian of the Moravian Karts (Central Europe, Czech Republic): Preliminary Report	17:15 – 17:30	Nadya KURDINA Influence of Sedimentary and Postsedimentary Processes on Reservoir Properties of Starooskolsky Horizon (Timan-Pechora Basin)
11:45 - 12:00	Edgars MAĻINOVSKIS , Sandijs MEŠĶIS Analysis of Trace Fossil Preservation in Dolomites of Daugava Formation in Riga District	17:30 – 17:45	Pille LOMP , Maris RATTAS Environmental Setting and Stable C-O Isotope Composition of Carbonate Cements in Glacial Outwash and Beach Deposits
12:00 – 12:15	Klaudiusz SALAMON Silicification of Cretaceous Scleractinian Corals of Miechow Area, South Poland	17.30 - 17.45	Tomáš WEINER , Jiří KALVODA Stratigraphy of the <i>Annulata</i> Events in the Moravian Karst (Famennian, Czech Republic)
12:15 - 12:30	Karolina GADOWSKA , Dorota KAPTURKIEWICZ Preparation Efficiency, Foraminifera Recovery and Preservation in Fine-Grained Deposits of Turbidite Successions. A Comparison of Results of Glauber's Salt and Liquid Nitrogen Rock Preparation Methods		
12:45 - 13:45	LUNCH		
14:00 – 14:15	Rafał DAMAZIAK The Cretaceous – Paleocene boundary of the Skole Unit of the Przemyskie Foothills Based on Micropalaeontological Studies		



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POSTER SESSION 3:

STRUCTURAL GEOLOGY, PALAEOONTOLOGY, SEDIMENTOLOGY, QUATERNARY GEOLOGY, GEOARCHAEOLOGY

BUILDING № 11: 1ST FLOOR

- 11 **Edgars BĒRZIŅŠ**, Māris KRIEVĀNS
Terraces of the River Ciecere Valley from Lower Reaches to Middle Reaches
- 12 **Rafał DAMAZIAK**
Present Achievements and New Directions in the Indications of the Cretaceous-Paleocene Boundary in Central Europe
- 12 **Ludmila DAŇKOVÁ**, Rostislav MELICHAR
Paleostress Analysis of Moldanubian Rocks from Jihlava Area
- 13 **Anna FETISOVA**, Roman V. VESELOVSKIY, Svetlana BOTSOUN, Lubov DEMINA
Paleomagnetic Evidence for the Large Scale Mesozoic Remagnetization Event in the Fennoscandian Shield (the Kola Peninsula)
- 14 **Anna FETISOVA**, Anton LATYSHEV, Roman VESELOVSKIY, Vladimir PAVLOV
The Siberian Traps: New Constraints on Duration, Rate of Volcanism and Magnetostratigraphic Correlation Based on a New High Detailed Paleomagnetic Data
- 15 **Răzvan G. IACOB**, Ioan I. BUCUR, Emanoil SĂȘĂRAN, Răzvan UNGUREANU, Gheorghică C. UNGUR
Microfacies Analysis of Upper Jurassic – Lower Cretaceous Carbonate Deposits from Pui Area (Hateg Basin, Romania)
- 16 **Iuliia IUSKIV**, Valentin VERKHOVTSEV
Methods of Construction Neotectonics Maps on Example of Ukrainian Shield and Its Slopes Scale 1:500 000
- 17 **Adam JAROŠ**, Rostislav MELICHAR
Image Analysis of Stone Structure Using Autocorrelation Function
- 18 **Katarzyna KAŹDIOŁKA**
New Insights on Climate Changes during Late Pleistocene and Its Impact on Biological Condition of Neanderthals and Homo Sapiens Sapiens in Central Europe
- 19 **Alexander KALININ**
Geological Model and Tectonic Evolution Analysis of the Southeast Areas of West-Siberian Basin
- 110 **Agata KŁAKOWITZ**, Agnieszka SITARZ, Aleksandra WIERCZOREK
Basin Analysis of Lower Carboniferous Gas-Bearing Shale in Variscan Silesian Foreland Basin, SW. Poland
- 111 **Ekaterina KLIMOVA**, Vyacheslav MATRENICHEV
Biogenic Tetrad Effect of Clayey Deposits in Caves
- 112 **Martin KNÍŽEK**, Rostislav MELICHAR, Vojtěch ŠEŠŮLKA
Clay and Závist Faults as One Large Variscan Strike Slip Fault Around Kozičín, Pičín and Řitka Villages (Barrandien, Bohemian Massif)
- 113 **Anastasiya KORNEYKO**, **Roman VESELOVSKIY**
New Paleomagnetic Data from the Bajocian Volcanic Rock of the Crimean Mountains (Ukraine)
- 114 **Solomiia KRIL**, Ihor BUBNIAK, Serhiy TSIKHON
Stress Fields Evolution in Rakhiv-Tysa Fault Zone (East Carpathians, Ukraine)
- 115 **Ludvík LÖBEL**
The program for User-Modified Processing Directional Data and Paleostress
- 116 **Sandijš MEŠĶIS**
The Bioturbation Structures and a Rich Fauna of the Pavari Site, Late Devonian of Latvia
- 117 **Paweł MIKUŚ**, Alfred UCHMAN
Beetles as the Most Possible Tracemakers of the Non-Marine Trace Fossil *Macanopsis*
- 118 **Cristian Victor MIRCESCU**, Ioan I. BUCUR, Emanoil SĂȘĂRAN
Microfacies of Upper Jurassic Limestones from the Northern Part of Piatra Craiului Massif, Southern Carpathians, Romania (Vlădușca and Padina Închisă Sections)
- 119 **Mykhaylo NAKAPELYUKH**, Yuriy VIKHOT, Ihor BUBNIAK
Balanced Cross-Sections of the Skyba Nappe, Outer Ukrainian Carpathians (Case Studies from Sukil River Area)
- 120 **Katarzyna ORZECZOWSKA**
Heavy Minerals Frequencies and Microstructures of Grains from Loesses of the Podlasie Lowland (Warta Glacial period, Poland)
- 121 **Lucian PASCARIU**, Ioan I. BUCUR, Emanoil SĂȘĂRAN
The Calcareous Olistholites from Poiana Zănoaga (Northern Part of Piatra Craiului Syncline). Preliminary Data
- 122 **George PLEȘ**, Ioan I. BUCUR, Emanoil SĂȘĂRAN
Facies Associations and Depositional Environments of Upper Jurassic – Lower Cretaceous Carbonate Deposits from Arnota Mountain (Buila-Vânturarița Massif, Southern Carpathians, Romania)
- 123 **Dmytro PYLYPENKO**
Top – 10 of Paleontological Travel Routes in Ukraine
- 124 **Aleksandra STACHOWSKA**, **Michał MADEJ**
Conditions of Sedimentation and Structure of Carbonate Kess Kess Mounds in Hamar Laghdad Region in Anti-Atlas Mountains (North Africa)
- 126 **Yuriy VIKHOT**, **Mykhaylo NAKAPELYUKH**, Ihor BUBNIAK
The Cenozoic Paleostress Fields Evolution of North-Western Parts of the Skyba and Boryslav-Pokuttya Nappes by Joint and Fault-Slip Analyses (Outer East Ukrainian Carpathians)