



INQUA-SACCOM



**Ural Federal  
University**

named after the first President  
of Russia S.A. Yel'tsin

**IPAE**  
Institute of Plant  
and Animal Ecology UrB RAS



Section on European Quaternary Stratigraphy  
INTERNATIONAL UNION FOR QUATERNARY RESEARCH (INQUA)

# 2014 INQUA-SEQS meeting

**The Quaternary of the Urals:  
Global trends and Pan-European Quaternary records  
(10-16<sup>th</sup> September 2014, Ekaterinburg, Russia)**

## THIRD CIRCULAR and PROGRAMME



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Αικατερινούπολη Jekaterinenburg Єкатеринбург Екацярынбург Jekaterynburg Jekatërinburg Jekatyerinburg Jekaterinburgas  
Jekaterinburga

**Ural Federal University**  
and  
**Institute of Plant & Animal Ecology**  
**Ural Branch of the Russian Academy of Sciences**

**Dear colleagues and friends,**

Thank you very much for confirming your participation in the 2014 INQUA-SEQS Meeting! This Third Circular presents the programme of our meeting and outlines useful information on registration&payment, working sessions and field trips.



**INQUA-SEQS 2014**  
The Quaternary of the Urals: Global trends and Pan-European Quaternary records

## Delegate Identification

Please note that the official conference badge will be your official pass and must be worn to obtain entry to all scientific sessions and other events during the meeting. Conference badges are issued by the Ural Federal University and will be checked any time you enter the University. Conference badges will be also issued for accompanying persons.

## Conference fee

The conference fee is 150 € for ordinary participants and 80 € for students and accompanying persons covering scientific sessions, coffee breaks, 2 lunches on September 12-13, the abstract book and the guidebook for excursions, some other scientific materials, and city excursion in Ekaterinburg. The conference fees **do not cover** field trips, accommodation in Ekaterinburg, travel expenses, medical and personal accident insurance for participants.

## Payments

Payments for registration and field trips can be made **in cash** at our registration desk in the conference venue. Please note that all on-site cash payments must be made in Russian Ruble (according to the official exchange rates of the Central Bank of Russia at the date of payment). During the first registration day (September, 10) our receptionists will be available to help you find an exchange office close to the conference venue. You will need your passport when exchanging money.

## Must Have Items for Field Trips

**Water-proof and non-slip hiking shoes!** Please note that our excursion programme includes visits to the Uralian wilderness, clayey exposures and rocky cliffs. For your safety and comfort, we kindly ask you to bring water-proof and non-slip hiking shoes! If you wish to rotate your field and city shoes during the field trips, you may ask organizers for plastic bags on the excursion buses.

**Wind/water-proof clothes** are necessary because it often rains in September. Although it is quite important to have water-proof clothes and foot wear, please ensure that you have clothing suitable for changeable weather, because sometimes the temperatures might vary from +20°C to -5°C during one day, moreover, rains and winds, sometimes heavy, often arise quickly and unexpectedly.

**Special medicaments (if necessary).** Please note: it will not be possible to buy medicaments during field trips. If you need special pills, please do not forget to take them! If you have allergies, please take proper meds to treat allergic reactions.

**Cash.** If you wish to buy something during field trips, please take Rubles in cash because it is rarely possible to use credit cards outside big cities.



**English language is an official language for all talks and posters.**

**Oral presentations** will be held in the Main Conference Hall of the Ural Federal University, building N1 (Street address: Prospekt Lenina, 51). Duration of the talk: 20 min (15 min presentation + 5 min discussion). Presentations should be prepared in PowerPoint.

**Poster presentations** will be held in Ural Federal University, building N1, Lecture Room 314. Recommended poster size: 841x1189 mm (A0 format).

**PROGRAMME**

Wednesday, 10<sup>th</sup> September 2014

15.00-19.00 **Registration** of participants at the conference venue (Ural Federal University, Building №1, Street address: Prospekt Lenina, 51)

Thursday, 11<sup>th</sup> September 2014

8.00-9.00 **Registration**, continued (Ural Federal University, Building №1, Street address: Prospekt Lenina, 51).

9.00-20.00 **Field trip 1: Karst cavities of the western slope of the Middle Urals and their sedimentary infill as evidence of environmental changes during the Quaternary** (Meeting point: Ural Federal University, Building №1, Street address: Prospekt Lenina, 51)

**Stop 1.1.** The Border of Europe and Asia: Geological background

**Stop 1.2.** Olen'i Ruch'i National Park: Typical landscapes of Serga Karst Region (the Serga River valley)

**Stop 1.3.** Dyrovaty Kamen' Cave: Stratigraphy, paleontological data and archaeological findings

**Stop 1.4.** Rock-Shelter Svetlyi: Stratigraphy, paleontological data, archaeological findings and taphonomic issues

Friday, 12<sup>th</sup> September 2014

8.30-9.30 **Registration**, continued (Ural Federal University, Building №1, Street address: Prospekt Lenina, 51).

9.30-10.00 **OPENING CEREMONY** (Main Conference Hall)

**SESSION 1. Stratigraphy and Correlation** (Main Conference Hall)

10.00-10.20 Marks L., Gałazka D., Woronko B. Stratigraphy of the last Pleistocene glacial period in Poland

10.20-10.40 Šeirienė V., Rylova T., Baltrūnas V., Karabanov A., Savchenko I., Karmaza B., Kisielienė D., Paškauskaitė J. Pleistocene chronostratigraphical correlation of Lithuania and Belarus

10.40-11.00 **COFFEE BREAK** (Lecture Room 314)

11.00-11.20 Astakhov V. Stratigraphic correlation of Late Pleistocene across glaciated northern Russia

11.20-11.40 Zykin V.S., Zykina V.S. Stratigraphy and changes of environment and climate in the Late Cenozoic of Western Siberia

11.40-12.00 Linke G., Frechen M. Correlation of the Tobolian Interglacial (location Krivosheino/Ob River banks, north of Novosibirsk) with the Holsteinian Interglacial (northern Middle Europe), based on <sup>230</sup>Th/U activity ratio,



- thermoluminescence measurements (TL), and amino acid racemization  
 12.00 – 12.20 Borisov B.A., Shkatova V.K., Semenova L.R. Proposal on structure of the General Stratigraphic Scale of the Quaternary of Russia
- 12.20 - 12.40 Coltorti M., Pieruccini P., Vandenberghe J. Alluvial stratigraphy and fluvial dynamics at the Late Pleistocene-Holocene transition in the Italian Apennines
- 12.40-13.00 van Kolfshoten T., Kuijjer K., Turner C., Urban B. The Schöningen Middle Pleistocene sequence: a broader perspective
- 13.00-14.00 **LUNCH** (Serbian Yard Restaurant, Street address: Prospect Lenina, 53)
- SESSION 2. Geological Processes** (Main Conference Hall)
- 14.00-14.20 Fiebig M., Braumann S., Decker K., Haeuselmann P., Hintersberger E., Lomax J., Luethgens C., Neuhuber S., Schaefer J.M. New investigations of Quaternary deposits in the Vienna Basin (Austria)
- 14.20-14.40 Toker M., Celal Şengör A.M., Krastel S., Demirel-Schlüter F., Niessen F. The Plio-Quaternary deformation of the Lake Van Basin (Eastern Anatolia) from multi-channel seismic reflection profiles
- 14.40-15.00 Lomp P., Rattas M. Carbonate cements in glacial sediments: implications for palaeohydrologic conditions and glacial chronology
- 15.00-14.40 K. Lasberg Chronology of the Late Weichselian glaciations in the southeastern sector of the Scandinavian Ice Sheet
- 15.20-15.40 Dublyansky Y., Kadebskaya O., Luetscher M., Cheng H., Chaykovskiy I., Spötl Ch. Preliminary data on the Pleistocene history of permafrost in Central Urals (Russia) derived from cryogenic cave carbonates
- 15.40-16.00 Lefort J.-P., Monnier J.-L., Danukalova G. The Icelandic basalts: an «exotic» contribution to the Pleistocene beach deposits of westernmost Europe. How they grounded in France
- 16.00-16.20 **COFFEE BREAK** (Lecture Room 314)
- SESSION 3. Quaternary Soil Sequences** (Main Conference Hall)
- 16.20-16.40 Alexandrovskiy A.L., Ershova E.G., Krenke N.A. Soil and Pollen records in soil-alluvial series of the Moskva-river floodplain
- 16.40-17.00 Sizikova A.O., Zykina V.S. Correlation of the Late Pleistocene loess-paleosol sequence of SW Siberia and dynamics of its formation
- 17.00-17.20 Thiemeyer H., Peters S. Landscape and soils around the prehistoric site of Kammenyj Ambar
- 17.20-17.40 Sheinkman V. Problems of Quaternary Glaciations and the first findings of the MIS3 paleosols in the North-Western Siberia
- 17.40-18.00 Korkina I. Surface soils and Paleosols of rock-shelter Svetlyi (the Middle Urals)
- 18.40-19.40 **POSTER SESSION** (Lecture Room 314)
- 20.00 **Banquet** (Osobnyak Restaurant, Street Address: Krasnoarmeyskaya Str., 8)

Saturday, 13th September 2014

- SESSION 4. Paleoenvironment and Paleogeography** (Main Conference Hall)
- 9.00-9.20 Sapelko T.V., Deryagin V.V. Pollen correlations from lake sediments of the Southern Urals and Western Europe
- 9.20-9.40 Coltorti M., Pieruccini P. Tectonics, climate and fluvial sedimentation: the Pleistocene record of Central Italy
- 9.40-10.00 Bezrukova E.V., Tarasov P.E., Letunova P.P., Shchetnikov A.A., Kulagina N.V., Ivanov E.V., Sharova O.G., Belov A.V., Levina O.V. Last glacial–interglacial vegetation and environmental dynamics in southern Siberia
- 10.00-10.20 Sharova O.G., Bezrukova E.V., Shchetnikov A.A., Letunova P.P., Kulagina N.V., Sheifer E.V., Filinov I.A., Ivanov E.V., Levina O.V. Vegetation and climate changes in the Sentsa river valley (East Sayan Highland) in the middle-late



- Holocene
- 10.20-10.40 Chairkina N.M. Peat Bog Sites of the Trans-Urals
- 10.40-11.00 Semerikova S.A., Semerikov V.L. Molecular phylogeny and biogeographic history of firs (*Abies*, Pinaceae) based on AFLP markers and cytoplasmic DNA sequence data
- 11.00-11.20 **COFFEE BREAK** (Lecture Room 314)
- SESSION 5. Paleontological section** (Main Conference Hall)
- 11.40-12.00 Malikov D.G. The large mammals of North-Minusinsk basin in the Last Glacial period
- 12.00-12.20 Markova A.K. European small mammal faunas during the end of Early Pleistocene — the beginning of the Middle Pleistocene
- 12.20-12.40 Zinoviyev E.V., Dudko R.Yu., Gurina A.A., Tsepelev K.A., Tshernyshev S.E., Legalov A.A. First records of the sub-fossil insects from Quaternary deposits in the southeastern part of Western Siberia
- 12.40-13.00 Lagunov A.V., Veisberg E.I.. Holocene history of *Carabus karpinskii* Kryzhanovskij et Matveev, 1993 endemic to the Southern Urals
- 13.00 – 14.00 **LUNCH** (Serbian Yard Restaurant. Street address: Prospect Lenina, 53)
- 14.00-14.20 Popova L.V. Evolutionary lineage of *Spermophilus superciliosus* — *S. fulvus* (Rodentia, Sciuridae) in the Quaternary of the Dnieper Area: an ability of a biostratigraphical implication
- 14.20-14.40 Nikolskiy P.A., Titov V.V., Tesakov A.S., Foronova I.V., Baygusheva V.S. Two early Biharian morphotypes of meridionaloid elephants, *Archidiskodon meridionalis* (Nesti, 1825), recovered from Sarkel (Lower Don area, southern European Russia
- 14.40-15.00 Baygusheva V.S., Titov V.V., Tesakov A.S., Syromyatnikova E.V., Kurshakov S.V., Frolov P.D. Middle Pleistocene fauna of Veshenskaya (middle Don River, Rostov Region, Russia
- 15.00-15.20 Tiunov M.P. *Myospalax psilurus* — a relic of the Southeastern outskirts of the mammoth fauna
- 15.40-16.00 Chlachula J., Serikov Yu. B. Geology and Chronology of Pleistocene Cultural Records in the Central Urals
- 16.00-16.20 **COFFEE BREAK** (Lecture Room 314)
- 16.20-17.20 **POSTER SESSION** (Lecture Room 314)
- 17.20-18.20 **MEETING OF THE SEQs COMMUNITY** (Main Conference Hall)
- 18.30-20.00 **Evening sightseeing:** Ekaterinburg. Meeting point: Ural Federal University, Building №1, Street address: Prospekt Lenina, 51

Sunday, 14<sup>th</sup> September 2014

- 8.00-21.00 **Field trip 2: Southern Urals, Day 1**  
(Departure point: Ural Federal University, Building №1, Street address: Prospekt Lenina, 51)
- Stop 2.1.** Field seminar “The Quaternary stratigraphy of the eastern slope of the Southern Urals: Baturino Coal Quarry”
- Stop 2.2.** Field seminar: “Quaternary deposits in the Miass River valley (eastern foothills of the Southern Urals): Miass Brick Quarry”
- Stop 2.3.** Round-table discussions and dinner at the FonGrad conference hall  
Overnight stay in the FonGrad Hotel

Monday, 15<sup>th</sup> September 2014

- 8.00-23.00 **Field trip 2: Southern Urals, Day 2**  
(Departure point: FonGrad Hotel, parking lot)





**Stop 2.4.** Field seminar “Karst caves of the Southern Urals: Quaternary deposits, paleoenvironment, dating and archaeological heritage of Ignatievskaya Cave”

Tuesday, 16<sup>th</sup> September 2014

10.00-12.00

**Field trip 3: Eastern slope of the Middle Urals: Quaternary deposits in granite grottos, peat lands and alluvial placers**(Departure point: Ural Federal University, Building №1, Street address: Prospekt Lenina, 51)

**Stop 3.1.** Shaytanoozersky Kamennyi Ostrov -1 (ShKO), a unique archaeozoological locality in granite rocks of the Middle Urals (Upper Neopleistocene – Holocene)

**Stop 3.2.** An open-pit gold mine in the Shuralka River mouth, outcrops of the Holocene riverine peat deposits

**Stop 3.3.** Gorbunovo Peat Bog, a unique archaeological and paleontological locality and a stratotype section of the Gorbunovo Horizon (the entire Holocene sequence)

**Stop 3.4.** The East-Uralian fluvial complexes of the Quaternary: Udarnik gold placer as a reference locality of the Rezh Alluvium (Upper Neopleistocene)

**Stop 3.5.** Nevyansk Museum

#### **POSTER PRESENTATIONS (12th September 2014)**

**Sections:** Stratigraphy and Correlation, Geological processes, Soil Sequences, Paleoenvironment and Paleogeography

**Ural Federal University, Building №1, Lecture room 314**

Agafonov L. The Ob River discharge for the last 300 years: Reconstruction from tree rings

Astakhov V., Shkatova V., Zastrozhnov A., Chuyko M. The new map of ice marginal formations of Russia

Bylinskaya M.E., Golovina L.A., Pokrovskii B.G. Paleoenvironments in the Fram Strait, North Atlantic, during MIS 2–6

Danukalova G., Yakovlev A., Osipova E. Biostratigraphical characteristic of the Lower Neopleistocene deposits of the Southern Urals region

Dergacheva M., Nekrasova O., Uchaev A. Sarykul' paleosol in Baturino quarry (Southern Urals, Russia)

Khrunyk Y.Y., Koporikov A.R., Bogdanov V.D., Borodin A.V. Genetic variability of burbot, *Lota lota*, and the connection of the main Holarctic river basins in the Quaternary

Kisieliene D., Stancikaite M., Šeirienė V., Gryguc G., Skipityte R. Late-glacial climatic events and chronology of environmental development in south east Lithuania

Korsakova O.P., Kolka V.V., Semyenova L.R. Late Neopleistocene stratigraphy according to the sediment successions from Eastern Kola Peninsula, Ponoy River Valley

Krotova-Putintseva A.Y. Once again about the Early Valdaian glaciation

Letunova P.P., Kulagina N.V., Sharova O.G., Bezrukova E.V., Vinogradov A.P. Forest ecosystem history of south Eastern Siberia over the Holocene



- Panova N.K., Antipina T.G. Late glacial and Holocene environmental history on the eastern slope of the Middle Ural Mountains, Russia
- Rudenko O.V., Yenina V., Taldenkova E.E. New paleofloristic data from Holocene bottom sediments of the Laptev Sea outer shelf and continental slope
- Semerikov V.L., Semerikova S.A., Polezhaeva M.A., Kosintsev P.A. Phylogeography of Siberian conifers based on cytoplasmic and nuclear DNA markers
- Stefanovskii V.V., Zinoviev E.V., Strukova T.V., Trofimova S.S., Kosintsev P.A. Biostratigraphy of the Late Pleistocene deposits in the site of Nizhnaya Tavda (Western Siberia, Russia)
- Trifonov V.G., Lyubin V.P., Belyaeva E.V., Lebedev V.A., Trikhunkov Ya. I., Tesakov A.S., Simakova A.N., Veselovsky R.V., Latyshev A.V., Meliksetian Kh., Presnyakov S.L., Ivanova T.P., Ozhereliev D.V., Bachmanov D.M., Artyushkov S.E., Lyapunov S.M. Early Pleistocene of North-West Armenia: stratigraphy, archaeology and tectonics
- Ulitzko A.I. Stratigraphy of sediments and mammals in the karst caves in the Irgina River Valley (Middle Urals)
- Valdayskikh V., Zhdanova T., Filimonova D. Some Features of 4-Millennium Buried Soils of Zauralye (Trans-Urals)
- Yalkovskaya L.E., Sibiryakov P.A., Borodin A.V. Fossil finds and molecular phylogeography of the Siberian flying squirrel (*Pteromys volans* L., 1758)
- Zastrozhnov A., Danukalova G., Zastrozhnov D., Popov S. The main matters of stratification for Lower Volga Neopleistocene, Russian Federation
- Zastrozhnov A., Shkatova V., Minina Y., Gusev Y., Chuyko M., Astakhov V. The new Quaternary map of the Russian Federation, scale 1:2 500 000

#### POSTER PRESENTATIONS (13th September 2014)

**Section:** Paleontological section

#### Ural Federal University, Building №1, Lecture room 314

- Borodin A.V. Evolutionary patterns in the dentition of Arvicolinae (Cricetidae, Rodentia)
- Fadeeva T.V. Insectivorous mammals (Eulipotyphla) in the Perm Pre-Urals during the Late Pleistocene and Holocene periods
- Klimowicz M., Socha P., Nadachowski A. Rodents as indicators of a steppe biome development in late Middle and Late Pleistocene of Poland
- Kosintsev P.A. *Elasmotherium* (*Elasmotherium sibiricum* Fisher, 1808): new data on the period of existence and geographic range
- Kosintsev P.A., Gasilin V.V., Gimranov D.O. Carnivores of the Urals in the Late Pleistocene and Holocene
- Kuzmina E.A., Smirnov N.G., Ulitzko A.I. New data of the Holocene small mammal communities from Ural-Sakmara interfluvium, Southern Urals
- Lemanik A., Nadachowski A., Socha P. Biostratigraphic importance of root vole (*Microtus oeconomus*) in Pleistocene of Poland



- Loseva E. Fossil Diatoms in the North of Western Urals and Bolshezemelskaya tundra
- Markova E.A., Strukova T.V., Borodin A.V. Small mammals as indirect biotic markers for climate dynamics assessment in the central part of northern Eurasia
- Nadachowski A., Lipecki G., Ratajczak U., Stefaniak K., Wojtal P. Dispersal events of saiga antelope (*Saiga tatarica*) in Central Europe in response to the climatic fluctuations in MIS 2 and the early part of MIS 1
- Pogodina N.V., Yakovleva Yu. A. Arvicoline fauna of Zverinogolovskoye locality (Pliocene-Early Eopleistocene, Southern Transurals)
- Puzachenko A.Yu., Markova A.K. Mammal diversity during the Pleistocene–Holocene transition in Eastern Europe
- Ratajczak U., Stefaniak K., Nadachowski A. Remains of *Saiga tatarica* (Linnaeus, 1766) from the Quaternary deposits of Emine-Bair-Khosar Cave (Crimea) and other localities of Ukraine and Poland
- Smirnov N.G., Kuzmina E.A., Izvarin E.P., Kropacheva Y.E. Steppe species of small mammals in Pleistocene and Holocene communities of North Eurasia
- Socha P. Rodent biodiversity in the middle and late Pleistocene of Poland
- Socha P. Rodent communities as indicators of climate dynamics in Poland during late Middle and Late Pleistocene
- Sotnikova M.V. A Canidae assemblage from the Kuruksay fauna (Southern Tajikistan) as the reflection of the most important events that occurred at the beginning of Early Pleistocene in Central Asia
- Zinovyev E.V. Disjunctive areas of insects as a reflection of environmental peculiarities of Northern Eurasia in the Pleistocene and Holocene
- Zykov S.V., Fominykh M.A., Strukova T.V. Dental microwear in Late Quaternary rodents: methodological issues in the analysis of *Clethrionomys* and *Sylvaemus*

