



**INTERNATIONAL RESEARCH
AND EDUCATIONAL FORUM**

**EURASIA 2022:
THE SOCIAL AND HUMANITARIAN
SPACE IN THE ERA OF GLOBALIZATION
AND DIGITALIZATION**

Venue 10

**FEDERAL STATE BUDGETARY
INSTITUTION OF SCIENCE
SOUTH URALS FEDERAL
RESEARCH CENTER OF
MINERALOGY AND
GEOECOLOGY OF THE URALS
BRANCH OF THE RUSSIAN
ACADEMY OF SCIENCES**

**ECOLOGICAL EDUCATION
AND GEOECOLOGY FOR
SUSTAINABLE DEVELOPMENT**



PROGRAM

April 6–8, Chelyabinsk 2022

April 7, 2022

VENUE 10

“ECOLOGICAL EDUCATION AND GEOECOLOGY FOR SUSTAINABLE DEVELOPMENT”

South Ural Federal Research Centre for Mineralogy and Geo-ecology of the Ural Branch of the Russian

Academy of Sciences (Venue 10)

Miass, Ilmen State Reserve

09.00 – 17.00

local time

Interdisciplinary Scientific Conference

09.00 – 10.00 Registration

10.00 – 12.30 Plenary (Venue 10.0)

Conference
Hall

Moderator: **Valery Udachin**, Doctor of Sciences (Geology and Mineralogy),
Director of South Ural Federal Research Centre for Mineralogy and
Geoecology of the Ural Branch of the Russian Academy of Sciences

Welcome address by:

Valery Udachin, Doctor of Sciences (Geology and Mineralogy), Director of
South Ural Federal Research Centre for Mineralogy and Geoecology of the
Ural Branch of the Russian Academy of Sciences

Elena Belogub, Doctor of Sciences (Geology and Mineralogy), Deputy
Director of South Ural Federal Research Centre for Mineralogy and
Geoecology of the Ural Branch of the Russian Academy of Sciences

Reports:

1. **V. N. Udachin (South Ural Federal Research Centre for Mineralogy and Geoecology of the Ural Branch of the Russian Academy of Sciences).** Mining Technogenesis of the South Ural Region
2. **P. P. Kudriavtseva (Taganay National Park).** Organization of Biotechnical Activities in Taganay National Park
3. **A. A. Seleznev (Zavaritsky Institute of Geology and Geochemistry of the Ural Branch of the Russian Academy of Sciences).** Evaluation of Water Body Pollution from the Shemur Ore Field in the Denezhkin Kamen Nature Reserve (North Urals).
4. **N. B. Kuyantseva (South Ural Federal Research Centre for Mineralogy and Geoecology of the Ural Branch of the Russian Academy of Sciences).** Forest Dynamics in the Ilmen State Reserve Resulting from Natural and Anthropogenic Factors
5. **M. V. Kalinnikova (Saratov State University).** Environmental Risks Related to Oil and Gas Industries: the Volga Region in Saratov. *Online Presentation.*
6. **M. V. Dymova (Ministry of Ecology of the Chelyabinsk Region).** Forming Ecological Culture among Citizens of the Chelyabinsk Region

Questions and discussion

13.00 – 16.45 Section 1. The Ecological Monitoring of Mining Industry Territories and Improving the Efficiency of Subsoil Use (Venue 10.1)

Conference
Hall

Supervisor: **E. V. Belogub**

Secretary: **E. E. Palenova**

Keynote reports:

1. **K. A. Filippova, V. N. Udachin (South Ural Federal Research Centre for Mineralogy and Geoecology of the Ural Branch of the Russian Academy of Sciences).** Potential Heavy Metals Toxicants in the Natural Soils in Chelyabinsk
2. **D. V. Kiseleva (Zavaritsky Institute of Geology and Geochemistry of the Ural Branch of the Russian Academy of Sciences).** Evaluating the Pollution of Surface Soil and Vegetation with Heavy Metals in the Orenburg Region
3. **L. V. Snitko (South Ural Federal Research Centre for Mineralogy and Geoecology of the Ural Branch of the Russian Academy of Sciences).** Monitoring the Water Quality of Ural Water Reservoirs According to Phytoplankton
4. **P. G. Aminov (South Ural Federal Research Centre for Mineralogy and Geoecology of the Ural Branch of the Russian Academy of Sciences).** Physical and Chemical Parameters of Acid Mine Drainage Water in the South Ural Region (Pit Lakes)
5. **D. V. Kiseleva (Zavaritsky Institute of Geology and Geochemistry of the Ural Branch of the Russian Academy of Sciences).** Evaluating the Heavy Metals Pollution of Surface Water in the Orenburg Region
6. **I. A. Blinov (South Ural Federal Research Centre for Mineralogy and Geoecology of the Ural Branch of the Russian Academy of Sciences).** Experimental Oxidation of Sulphide-bearing Rhyodacites of the Blyava Pyrite Deposit (South Ural Region).
7. **S. I. Briukhov (Miass Branch of South Ural State University).** Changes in Eh and pH during Experimental Oxidation of the Gai Ore Mining and Processing Plant Tailings
8. **D. V. Kiseleva (Zavaritsky Institute of Geology and Geochemistry of the Ural Branch of the Russian Academy of Sciences).** Plumbum Isotope Ratios in Urban Surface Deposits as an Indicator of Geochemical Transformation of Urbanized Landscapes: Examining Russian Cities
9. **T. G. Okuneva (Zavaritsky Institute of Geology and Geochemistry of the Ural Branch of the Russian Academy of Sciences).** Using Plumbum Isotope Ratios to Reveal the Pollution Sources in Large Cities
10. **T. G. Okuneva (Zavaritsky Institute of Geology and Geochemistry of the Ural Branch of the Russian Academy of Sciences).** Methods of Determining the Cu and Zn Isotope Ratios in Geological Materials

The following people are invited to participate in this section:

P. G. Aminov (South Ural Federal Research Centre for Mineralogy and Geoecology of the Ural Branch of the Russian Academy of Sciences),

I. A. Blinov (South Ural Federal Research Centre for Mineralogy and

Geocology of the Ural Branch of the Russian Academy of Sciences), S. I. Briukhov (Miass Branch of South Ural State University), M. V. Dymova (Ministry of Ecology of the Chelyabinsk Region), M. V. Kalinnikova (Saratov State University), D. V. Kiseleva (Zavaritsky Institute of Geology and Geochemistry of the Ural Branch of the Russian Academy of Sciences), P. P. Kudriavtseva (Taganay National Park), N. B. Kuyantseva (South Ural Federal Research Centre for Mineralogy and Geocology of the Ural Branch of the Russian Academy of Sciences), T. G. Okuneva (Zavaritsky Institute of Geology and Geochemistry of the Ural Branch of the Russian Academy of Sciences), L. V. Snitko (South Ural Federal Research Centre for Mineralogy and Geocology of the Ural Branch of the Russian Academy of Sciences), V. N. Udachin (South Ural Federal Research Centre for Mineralogy and Geocology of the Ural Branch of the Russian Academy of Sciences), K. A. Filippova (South Ural Federal Research Centre for Mineralogy and Geocology of the Ural Branch of the Russian Academy of Sciences), and others

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| 13.00 – 14.00 | Presentation. Educational Broadcast for Children and Young People Ekoazbuka (ABCs of Ecology) (Venue 10.2) | Museum of Natural Sciences |
| | Moderator: M. V. Dymova , Head of the Department of Ecological Education of the Ministry of Ecology of the Chelyabinsk Region | |
| 14.00 – 14.45 | Game training. Demo Lesson on Red Book (Venue 10.3) | Museum of Natural Sciences |
| | Presenters: E. A. Artemenko, E. V. Gumelevskaya | |
| 15.00 – 16.45 | Excursion. Tour of the Museum of Natural Sciences at the South Ural Federal Research Centre for Mineralogy and Geocology of the Ural Branch of the Russian Academy of Sciences (Venue 10.4) | Museum of Natural Sciences |
| | Presenter: L. B. Novokreshchenova | |
| April 8, 2022 | | |
| 10.00 – 11.00 | Excursion. Trip to a typical mineral mine in the Ilmen State Reserve (Venue 10.5) | Ilmen State Reserve |
| | Presenter: M. A. Rassomakhin | |
| 11.00 – 12.30 | Master class. Analytical Possibilities of South Ural Federal Research Centre for Mineralogy and Geocology of the Ural Branch of the Russian Academy of Sciences for Solving Environmental Tasks (Venue 10.6) | Conference Hall |
| | Presenter: E. V. Palenova | |
| 13.00 – 14.00 | Summarizing the results. Report by the venue supervisor (Venue 10.7) | Conference Hall |
| | Supervisor: V. N. Udachin , Doctor of Sciences (Geology and Mineralogy), Director of South Ural Federal Research Centre for Mineralogy and Geocology of the Ural Branch of the Russian Academy of Sciences | |