

Taras Shevchenko National University of Kyiv

"Institute of Geology"

Departments of Geology of Mineral Deposits,
Department of Mineralogy, Geochemistry and
Petrography

Workshop
**«BIF – hosted Iron Ore Deposits
of Ukraine: Current Problems and
Development Prospects»**



Conference program

March 21-22, 2024

Kyiv, Ukraine

Procedure of the conference

Workshop «BIF – hosted Iron Ore Deposits of Ukraine: Current Problems and Development Prospects» will take place in Educational and Scientific Institute "Institute of Geology" of Taras Shevchenko National University of Kyiv, Ukraine (Kyiv, 90 Vasylkivska Str., room 104) on March 21-22, 2024 in mixed mode – offline and online via Skype software (link for login <https://join.skype.com/1Jhp6CnDI5Ms>)

REGULATIONS

21-22.03.24 – reports at sectional meetings – up to 20 minutes

Discussion – up to 5 minutes

March 21, 2024

9³⁰ – 10⁰⁰ registration of conference participants

10⁰⁰ – 17⁴⁰ sectional meeting

17⁴⁰ discussion

March 22, 2024

9³⁰ – 10⁰⁰ registration of conference participants

10⁰⁰ – 14⁵⁰ sectional meeting

15⁰⁰ discussion and summary of the work at a formal dinner

March 21, 2024

9³⁰ – 10⁰⁰ registration of conference participants (in online and offline formats)

SECTIONAL MEETING

Joint work of sections

Moderator: **Mykhailov Volodymyr Albertovych**, D.Sc., Prof., Head of Department of Geology of Mineral Deposits (*Institute of Geology of Taras Shevchenko National University of Kyiv, Kyiv*)

10⁰⁰ – 10²⁵ **THE ROLE AND TASKS OF GEOLOGICAL EDUCATION IN TRAINING PERSONNEL FOR THE GEOLOGICAL INDUSTRY OF UKRAINE**

Vyzhva Serhii Andriyovych, D.Sc., Prof., Director (*Institute of Geology of Taras Shevchenko National University of Kyiv, Kyiv*)

10³⁰ – 10⁵⁰ **MINERAL EXPLORATION TO FIRST STAGE RESOURCE EVALUATION. A REVIEW OF TECHNIQUES AND PRACTICE**

Robert Horn, *Canada*

10⁵⁰ – 11¹⁵ **FOREIGN FINANCING OF THE MINING SECTOR WHILE RETAINING SUBSTANTIAL UKRAINIAN CONTROL**

Robert Horn, *Canada*

11¹⁵ – 11⁴⁰ **IRON ORE MINING INDUSTRY OF UKRAINE IN A GLOBAL CONTEXT**

Mykhailov Volodymyr Albertovych, D.Sc., Prof., Head of Department of Geology of Mineral Deposits (*Institute of Geology of Taras Shevchenko National University of Kyiv, Kyiv*)

11⁴⁰ – 12⁰⁵ **IRON ORE RESEARCH TECHNOLOGIES OF UKRAINE: CURRENT STATUS, POSSIBILITY AND RELEVANCE OF OPTIMAL UPDATE TAKING INTO ACCOUNT THE HISTORY OF PRODUCTION AND PRESENT CHALLENGES**

Shnyukov Serhii Ievhenovych, D.Sc., Head of Department of Mineralogy, Geochemistry and Petrography, Lazareva Iryna Ivanivna, Ph.D., Assoc. Prof. of Department of Mineralogy, Geochemistry and Petrography, Omelchenko Alla Mykolaivna, Ph.D., Eng., Andreev Oleksandr Vyacheslavovich, Ph.D. (*Institute of Geology of Taras Shevchenko National University of Kyiv, Kyiv*), Padusenko Oleksandr Vasyliovych, Ph.D. ("SELM", *Sumy*), Bunkevych Oleksiy Leonidovych, Lead. Eng., Bilan Olena Volodymyrivna, Lead. Eng., Vyrshylo Anton Viktorovych, 2 cat. Eng., Khlon Olena Anatoliivna, Lead. Eng., Popov Serhiy Anatoliyovych, Ph.D., Head of the Educational Laboratory of the Department of Geophysics, Osypenko Viktoriia Yuriivna, Ph.D., Eng., Alekseenko Anton Hryhorovych, Ph.D. (*NNI "Institute of Geology" of Taras Shevchenko National University of Kyiv, Kyiv*)

- 12⁰⁵ – 12³⁰ ORGANIZATION OF THE WORK OF MINING AND PROCESSING PLANTS. TODAY'S CHALLENGES**
Gerasymchuk Oleksandr Mykolayovych, General Director (*PJSC "Ingulets Mining and Processing Plant", Kryvyi Rih*)
- 12³⁰ – 12⁴⁰ – BREAK**
- 12⁴⁰ – 13⁰⁵ FEATURES OF THE TECHNOLOGICAL PROCESSES OF THE ENRICHMENT OF IRREGULAR MAGNETITE QUARTZITES**
Belan Olena Mykolayivna, expert (*"Metinvest Holding", Kyiv*)
- 13⁰⁵ – 13³⁰ PROGNOSTIC SIMULATION OF THE USE OF IRON ORE DEPOSITS OF UKRAINE IN THE CONDITIONS OF WAR AND POST-WAR RECONSTRUCTION OF THE COUNTRY**
Horoshkova Lidiia Anatoliivna, D.Sc. in Economic, Prof. (*National University of Kyiv-Mohyla Academy, Kyiv*)
- 13³⁰ – 14⁵⁵ OPTIMIZATION OF RESERVE STRUCTURE DURING INTENSIVE DEVELOPMENT OF DOMESTIC IRON ORE DEPOSITS**
Kurylo Mariia Mykhaylivna, D.Sc., Assoc. Prof. of Department of Geology of Mineral Deposits (*Institute of Geology of Taras Shevchenko National University of Kyiv, Kyiv*)
- 14⁵⁵ – 15²⁰ FLASH BRECCIA – A "NEW" MORPHOLOGICAL AND GENETIC TYPE OF TECHNOGENIC GEOLOGICAL FORMATIONS OF THE DEPOSITS OF THE KRYVORIZI IRON ORE BASIN**
Pokaliuk Volodymyr Vasylyovych, D.Sc., Senior Researcher, Verkhovtsev Valentin Gennadiyovych, D.Sc., Head of the Department, Gubina Viktoriia Heorhiivna, Ph.D., Senior Researcher, **Yatsenko Viktor Hermanovych**, Ph.D., Senior Researcher, Zaborovska Larisa Pavlina, Ph.D. Senior Researcher, Osmachko Lyudmila Stepanivna D.Sc., Senior Researcher (*Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine, Kyiv*), Maiboroda Yevhen Ihorovych, Director (*Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine, Kyiv, GEOPROF, Kyiv*)
- 15²⁰ – 15⁴⁵ LEGAL PRINCIPLES OF THE DEVELOPMENT OF IRON ORE DEPOSITS OF UKRAINE**
Remezova Olena Oleksandrivna, D.Sc., Head of Department of Metallogeny (*Institute of Geological Sciences of the National Academy of Sciences of Ukraine, Kyiv*)

15⁴⁵ – 16⁰⁰ – BREAK

- 16⁰⁰ – 16²⁵** **POLYMORPHIC PHASES OF OXIDES IRON AND THEIR ROLE IN ORE PRODUCTION AND IRON ORE ENRICHMENT PROCESSES**
Snisar Viktor Petrovych, Ph.D., Head of the Department of Physics of Mineral Structures and Biomineralogy, Ponomarenko Oleksandr Mykolayovych, Academician of the National Academy of Sciences of Ukraine, Director, Antonenko Tetyana Serhiyivna, Ph.D., Researcher, Matyash Maksym Ivanovych, Ph.D., Junior Researcher (*Institute of Geochemistry, Mineralogy and Ore Formation of the National Academy of Sciences of Ukraine named after M.P. Semenenko, Kyiv*)
- 16²⁵ – 16⁵⁰** **FERROMAGNETIC PHASES OF IRON ORE COILS ACCORDING TO THE DATA OF THERMOMAGNETOMETRY AND FMR**
Snisar Viktor Petrovych, Ph.D., Head of the Department of Physics of Mineral Structures and Biomineralogy, Kalinichenko Anatoliy Mykhailovych, Ph.D., Senior Researcher, Bagmut Mykola Mykolayovych, Ph.D., Leading Researcher, Kalinichenko Olena Anatoliivna, Ph.D., Senior Researcher, Ovsienko Volodymyr Volodymyrovych, Junior Researcher (*Institute of Geochemistry, Mineralogy and Ore Formation of the National Academy of Sciences of Ukraine named after M.P. Semenenko, Kyiv*)
- 16⁵⁰ – 17¹⁵** **THERMAL TRANSFORMATION OF SIDERITE ORE ACCORDING TO THE DATA OF THERMOMAGNETOMETRY AND FMR**
Snisar Viktor Petrovych, Ph.D., Head of the Department of Physics of Mineral Structures and Biomineralogy, Kalinichenko Anatoliy Mykhailovych, Ph.D., Senior Researcher, Bagmut Mykola Mykolayovych, Ph.D., Leading Researcher, Kalinichenko Olena Anatoliivna, Ph.D., Senior Researcher, Ovsienko Volodymyr Volodymyrovych, Junior Researcher (*Institute of Geochemistry, Mineralogy and Ore Formation of the National Academy of Sciences of Ukraine named after M.P. Semenenko, Kyiv*)
- 17¹⁵ – 17⁴⁰** **VALUABLE IMPURITIES IN IRON ORES OF UKRAINE**
Matsui Victor Mykhailovych, Ph.D., Senior Researcher, **Komsky Mykola Markovych**, geologist-geochemist, Naumenko Ulyana Zenoviivna, Ph.D., Senior Researcher (*Institute of Geological Sciences of the National Academy of Sciences of Ukraine, Kyiv*)
- 17⁴⁰** **DISCUSSION**

March 22, 2024

9³⁰ – 10⁰⁰ registration of conference participants (in online and offline formats)

SECTIONAL MEETING

Joint work of sections

- Moderator:** **Shnyukov Serhii Ievhenovych**,
D.Sc., Head of Department of Mineralogy, Geochemistry and Petrography (*NNI "Institute of Geology" of Taras Shevchenko National University of Kyiv, Kyiv*)
- 10⁰⁰ – 10²⁵** **NON-STANDARD MODELS OF IRON FORMATIONS TRANSFORMATION**
Vasyl Mykolayovych Zagnitko, D.Sc., Prof. of Department of Geology of Mineral Deposits, Kostiantyn Ihorovych Gogolev, Ph.D., Junior Researcher (*"Institute of Geology" of Taras Shevchenko National University of Kyiv, Institute of Geochemistry, Mineralogy and Ore Formation named after M.P. Semenenko, National Academy of Sciences of Ukraine, Kyiv*)
- 10²⁵ – 10⁵⁰** **IMPROVEMENT OF THE CURRENT PLANNING OF MINING WORKS IN THE CONDITIONS OF IRON ORE QUARRIES OF UKRAINE**
Anisimov Oleg Oleksandrovich, Ph.D., Assoc. Prof. of Department of Opencast Mining (*National Technical University "Dniprovsk Polytechnic", Dnipro*), **Bariatska Nataliya Vasylivna**, D.Sc., Director (*"Softmine"*)
- 11¹⁵ – 11⁴⁰** **CURRENT PREREQUISITES OF THE COMPLEX DEVELOPMENT OF IRON ORE DEPOSITS: MAIN AND ASSOCIATED MINERALS, COMBINATION OF TYPES OF SUBSOIL USE**
Kurylo Maria Mykhailivna, D.Sc., Assoc. Prof. of Department of Geology of Mineral Deposits (*Institute of Geology of Taras Shevchenko National University of Kyiv, Kyiv*), **Bagriy Ihor Dmytrovych**, D.Sc., Prof., (*NNI "Institute of Geology" of Taras Shevchenko National University of Kyiv, Institute of Geological Sciences of the National Academy of Sciences of Ukraine, Kyiv*)
- 11⁴⁰ – 12⁰⁵** **STRUCTURAL-STRATIGRAPHIC POSITION AND AGE OF IRON ORE DEPOSITS OF THE MIDDLE POBUZHGE (UKRAINIAN SHIELD)**
Kyryliuk Viktor Pavlovych, D.Sc., Prof. (*Lviv Ivan Franko National University, Lviv*)
- 12⁰⁵ – 12³⁰** **IRON ORE INDUSTRY OF UKRAINE: STATUS AND PROSPECTS**
Gubina Victoria Heorhiivna, Ph.D., Senior Researcher (*Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine, Kyiv*)

12³⁰ – 12⁴⁵ – BREAK

- 12⁴⁵ – 13¹⁰** **POBUZKI MINING REGION AS A NEW CENTER FOR THE DEVELOPMENT OF IRON METALLURGY INDUSTRY OF UKRAINE**
Yentyn Volodymyr Arkadiyovych, Ph.D., Chief Geophysicist (*Center of Geophysical Research*), Gintov Oleg Borysovych, D.Sc, Prof., Corresponding Member of National Academy of Sciences of Ukraine, Orliuk Mykhailo Ivanovych, D.Sc., Prof., Pavlyuk Vyacheslav Mykolayovych, Junior Researcher, Mychak Serhiy Volodymyrovych, D.Sc., Bakarzhieva Maria Illivna, Ph.D., Marchenko Andriy Volodymyrovych, Junior Researcher (*S.I. Subbotin Institute of Geophysics of the National Academy of Sciences of Ukraine, Institute of Geological Sciences of the National Academy of Sciences of Ukraine, State Enterprise "Ukrainian Geological Company", Kyiv*)
- 13¹⁰ – 13³⁵** **MINERALOGICAL AND PETROLOGICAL CONTROL OF IRON ORE DEPOSITS OF THE KRYVORIZ BASIN DEPOSITS**
Kharitonov Vitaly Mykolayovych, Ph.D., Assoc. Prof. of the Department of Geology and Ecology (*Kryvyi Rih National University, Kryvyi Rih*)
- 13³⁵ – 14⁰⁰** **GEOCHEMICAL CHANGES IN THE NATURAL GEOLOGICAL ENVIRONMENT DURING THE DEVELOPMENT OF DEPOSITS OF THE KRYVORIZ IRON ORE BASIN**
Yatsenko Viktor Hermanovych, Ph.D., Senior Researcher, Head of Laboratoriy, Verkhovtsev Valentyn Gennadiyovych, D.Sc., Senior Researcher, Head of the Department, Gubina Viktoriia Heorhiivna, Ph.D., Senior Researcher, Lavrynenko Olena Mykolayivna, D.Sc., Senior Researcher (*State institution "Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine", Kyiv*)
- 14⁰⁰ – 14²⁵** **MANIFESTATIONS OF STRUCTURING OF TECHNOGENIC ACCUMULATIONS OF THE "NORTHERN" QUARRY NEAR KRYVIY RIH**
Osmachko Lyubov Stepanivna, D.Sc., Senior Researcher, Head of Laboratory (*State institution "Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine", Kyiv*)
- 14²⁵ – 14⁵⁰** **INNOVATIVE APPROACH TO THE DETERMINATION OF THE SUBSTANCE COMPOSITION OF IRON ORES BY THE METHOD OF X-RAY POWDER DIFFRACTION**
Yaremchuk Yaroslava Vasylivna, Ph.D., Senior Researcher (*Institute of Geology and Geochemistry of Combustible Minerals of the National Academy of Sciences of Ukraine, Lviv*)
- 15⁰⁰** **DISCUSSION AND SUMMARY OF THE WORK AT A FORMAL DINNER**

POSTER REPORTS DURING BREAKS

MAGHEMITE IN THE OXIDIZED IRON ORES OF THE SAXAGAN DEPOSIT OF KRYVO ROH

Zaborovska Larysa Pavlivna, Ph.D., Senior Researcher, Yatsenko Viktor Hermanovych, Ph.D., Senior Researcher, Head of Laboratoriy, Pokaliuk Volodymyr Vasylyovych, D.Sc., Senior Researcher, Gubina Viktoriia Heorhiivna, Ph.D., Senior Researcher, Zaborovsky Viktor Stefanovych, Researcher, Shyrinbekova Svitlana Nurakhmedivna, Ph.D., Researcher (*State institution "Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine", Kyiv*)

METAMORPHIZED MN-CARBONATE MICROCONCRETIONS IN FERROUS QUARTZITES OF THE NOVOKRIVORIZ DEPOSIT OF KRYVBASSU

Zaborovska Larysa Pavlivna, Ph.D., Senior Researcher, Pokaliuk Volodymyr Vasylyovych, D.Sc., Senior Researcher, Mykhalchenko Ivan Ivanovych, D.Sc., Senior Researcher, Zaborovsky Viktor Stefanovych, Researcher, Lytvynenko Yury Oleksandrovich, Junior Researcher (*State institution "Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine", Kyiv*)

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