

NATIONAL ACADEMY OF SCIENCES OF UKRAINE
DEPARTMENT OF GEOSCIENCES

CONFERENCE PROGRAM

**10TH INTERNATIONAL
GEOSCIENCES CONFERENCE
OF YOUNG RESEARCHERS
«IDEAS AND INNOVATIONS IN EARTH
SCIENCES»**

23-24 May 2024

KYIV – 2024

ORGANISED BY

INSTITUTE OF GEOLOGICAL SCIENCES
NAS OF UKRAINE



M.P. SEMENENKO INSTITUTE OF GEOCHEMISTRY,
MINERALOGY AND ORE FORMATION
NAS OF UKRAINE



SUBBOTIN INSTITUTE OF GEOPHYSICS
NAS OF UKRAINE



INSTITUTE OF GEOGRAPHY
NAS OF UKRAINE



STATE INSTITUTION SCIENTIFIC CENTER FOR
AEROSPACE RESEARCH OF THE EARTH OF THE
INSTITUTE OF GEOLOGICAL SCIENCES
NAS OF UKRAINE



UKRAINIAN MINERALOGICAL SOCIETY



INTERNATIONAL ASSOCIATION OF
SEDIMENTOLOGISTS



INTERNATIONAL ASSOCIATION ON THE GENESIS OF
ORE DEPOSITS



WELCOME LETTER

Dear colleagues,

It is a great pleasure to welcome you to the 10th International Geosciences Early Career Conference "Ideas and Innovations in Earth Sciences", which is being held in Kyiv at the Department of Geosciences of the National Academy of Sciences of Ukraine and online around the world, 23-24 of May 2024.

Last year the Conference Organising Committee, consisting of young scientists from the Department of Earth Sciences of the National Academy of Sciences of Ukraine, set themselves the ambitious task of making the conference international, and this year we're seeing the results.

This year's conference is the largest in its history, with the organising committee receiving more than a hundred applications from young scientists around the world. The conference will provide an opportunity to present the latest results of theoretical and applied research in the field of General and Regional geology; Marine geology; Mineral resources; Petroleum geology; Paleontology and Stratigraphy; Palynology and Paleoclimatology; Lithology and Sedimentology; Geochemistry, Mineralogy and Petrology; Geoinformatics; Hydrogeology and Engineering geology; Geomagnetism, Paleomagnetism and Electromagnetism; Physical geography, Geomorphology and Paleogeography; Geographical research and Sustainable development; Environmental geology.

I thank the Conference Organising Committee for the time and effort they have put into this event.

On behalf of all the participants, I would like to thank the Ukrainian Armed Forces for their courage and heroism, which make our work possible.

Dear young colleagues, please accept my warmest wishes of good health, comfort, well-being and peaceful sky which is especially important nowadays.

I hope this conference will increase cooperation between young scientists and stimulate you for further research in the name of science.

Stella SHEKHUNOVA

Director of the Institute of Geological Sciences of the NAS of Ukraine,

NAS Academician, Professor

MAY 23, THURSDAY

Day 1

Moderators:

PhD Olena Ganzha

PhD Kyrylo Starodubets

10:15-10:30	OPENING. INTRODUCTORY WORD OF THE SCIENTIFIC AND ORGANIZING COMMITTEES OF THE CONFERENCE	
10:30-11:00	<p>KEYNOTE SPEAKER – CATHERINE MOTTRAM University of Portsmouth, UK</p> <p>Topic of the report: «TRACKING THE PORPHYRY - EPITHERMAL MINERALIZATION TRANSITION USING U-PB CARBONATE DATING»</p>	
11:00-11:15 (in English)	Dröllner M., Danišik M., Barham M., Kirkland C.L.	CAPTURING THE THERMAL FINGERPRINT OF SOURCE AREAS WITH DETRITAL RUTILE U-PB-HE DOUBLE-DATING: REFINING SOURCE-TO-SINK RELATIONSHIPS IN THE MURRAY BASIN, SOUTHEASTERN AUSTRALIA
11:15-11:30 (in English)	Giunti S. Bojanowski M.J.	HYDROCARBON-DERIVED THROMBOLITES FROM THE OUTER CARPATHIANS (POLAND)
11:30-11:45 (in English)	Adizua O.F. Eke C.O.	APPLICATION OF SIGNAL ENVELOPE AND ITS DERIVATIVES TO ENHANCE RESERVOIR CHARACTERIZATION OF “X” FIELD IN THE NIGER DELTA BASIN
11:45-12:00 (in English)	Makwela D., Imai A.	PARAGENETIC STAGES OF RARE EARTH ELEMENTS MINERALIZATION AT THE TUNDULU CARBONATITE OF THE CHILWA ALKALINE PROVINCE, MALAWI
12:00-12:15 (in English)	Hadiatskyi O.	TOMOSTATICS SOLUTION IN THE REGION WITH COMPLEX SURFACE AND GEOLOGICAL ENVIRONMENTS
12:15-12:30 (in Ukrainian)	Cherkes S., Poliachenko I., Hlavatskyi D., Melnyk G., Bakhmutov V.	PALAEOGEOGRAPHY OF UKRAINE FROM THE PRECAMBRIAN TO THE QUATERNARY: RECENT ACHIEVEMENTS OF THE KYIV PALAEOMAGNETIC SCHOOL
12:30-12:45 (in English)	Bonchkovskyi O., Hlavatskyi D.	PALAEOPEDODOLOGY AND ROCK MAGNETISM OF THE UPPER PLEISTOCENE LOESS-PALAEOSOL SEQUENCE AT SMYKIV (NW UKRAINE)

12:45-13:00 (in Ukrainian)	Ivanov D.V., Anistratenko O.Yu.	VOLODYMYR M. SEMENENKO'S COLLECTION OF NEOGENE MOLLUSCS
13:00-14:00	LUNCH BREAK	
14:00-14:15 (in English)	Prylypko S., Alpert S.	GEOCHRONOLOGICAL RESEARCH OF ANTROPOGENIC SEDIMENTS
14:15-14:30 (in English)	Nezdolii Ye.	ON THE QUESTION OF TAPHONOMIC STUDIES OF THE FAUNA OF SMALL MAMMALS FROM THE PELLETS OF BIRDS OF PREY: THE UKRAINIAN CONTEXT
14:30-14:45 (in Ukrainian)	Biletskyi O.	RESEARCH AND CURRENT STATE OF UPPER VENDIAN (EDIACARAN) OUTCROPS IN THE HORYN FACIES ZONE
14:45-15:00 (in English)	Lunov Ye.S., Lunova I.M., Chernysh D.S., Nissen J.	EVOLUTION OF FELDSPARS DURING ALBITIZATION (ON THE EXAMPLE OF THE PERGA DEPOSIT, NW UKRAINE)
15:00-15:15 (in Ukrainian)	Streltsova I.	SEISMIC FACIES ANALYSIS OF PERMIAN SEDIMENTS OF PIVDENNO-KHRESTYSKHE AREA (DNIPRO-DONETS BASIN, UKRAINE)
15:15-15:30 (in English)	Varukha A.	DEVISING A MODEL PROTECTED AREA MANAGEMENT EFFECTIVENESS EVALUATION METHOD FOR THE CHORNOBYL RADIATION AND ECOLOGICAL BIOSPHERE RESERVE USING THE THEORY OF CHANGE APPROACH TO ENSURE RESERVE'S SUSTAINABLE DEVELOPMENT
15:30-15:45 (in Ukrainian)	Havryliuk R., Nikitash O., Nikitash Iu., Negoda Iu.	HYDROGEOLOGICAL ASPECTS OF THE SHALLOWING OF LAKE SYNE IN KYIV
15:45-16:00 (in Ukrainian)	Alpert S.	APPLICATION OF THE MODERN METHODS OF PROCESSING REMOTE SENSING DATA FOR SOLVING ECOLOGICAL PROBLEMS
16:00-16:15 (in Ukrainian)	Nikitash O., Havryliuk R., Shpak O., Negoda Iu., Lohvinenko O., Nikitash Iu.	MONITORING OF GROUNDWATER WATER QUALITY IN ECO-INDUSTRIAL PARK BILA TSERKVA
16:15-16:30 (in Ukrainian)	Koptieva T.	THE SINKHOLES OF THE SURFACE TIER OF MINING LANDSCAPES IN THE KRYVVI RIH LANDSCAPE- TECHNICAL SYSTEM

16:30-16:45 (in English)	Sapmaz İ., Uyar S., İçhedef M.	DETERMINATION OF RADIOACTIVITY AND HYDROGEOLOGICAL PROPERTIES OF AGORA HISTORICAL SITE AND HALKAPINAR UNDERGROUND WATER RESOURCES
16:45-17:00 (in English)	Arenas F., Fujita H., Sanchez A., Medina-Contreras D.	SURFACE SEA TEMPERATURE RECONSTRUCTION OF LA PAZ BAY, GULF OF CALIFORNIA: NEW EVIDENCE FROM PINCTADA MAZATLANICA $\delta^{18}\text{O}$
17:00-17:15 (in English)	Domínguez-Samalea Y. Sánchez-González A.	OXYGENATION CHANGES IN THE MEXICAN PACIFIC BASED ON THE SEDIMENTARY RECORD OF BENTHIC FORAMINIFERA
17:15-17:30 (in English)	Acevedo-Tirado T., Sánchez-González A.	PRODUCTIVITY DYNAMICS IN THE TRANSITIONAL ZONE OF THE MEXICAN PACIFIC: INSIGHTS FROM GEOCHEMICAL TRACERS
17:30-17:45 (in English)	Santana-Martí L.A. Rey-Villiers N. Ortiz-Hernández M.C. Sánchez A.	EFFECTS OF THE MASSIVE INFLUX OF PELAGIC SARGASUM IN CARBONATED SEDIMENTS FROM MEXICAN CARIBBEAN
17:45-18:00 (in English)	Quintana J. Gibson C.	GEOLOGY AND RESOURCE POTENCIAL OF THE PALOS VERDES PROJECT, MEXICO
18:00-18:30	<p align="center">KEYNOTE SPEAKER – JOHN THOMPSON PetraScience Consultants, Vancouver, Canada; University of Bristol, UK; Cornell University, USA; University of British Columbia, Canada</p> <p align="center">Topic of the report: «ARCS AND RIFTS – TWO DISTINCT METALLOGENIC SETTINGS»</p>	

MAY 24, FRIDAY

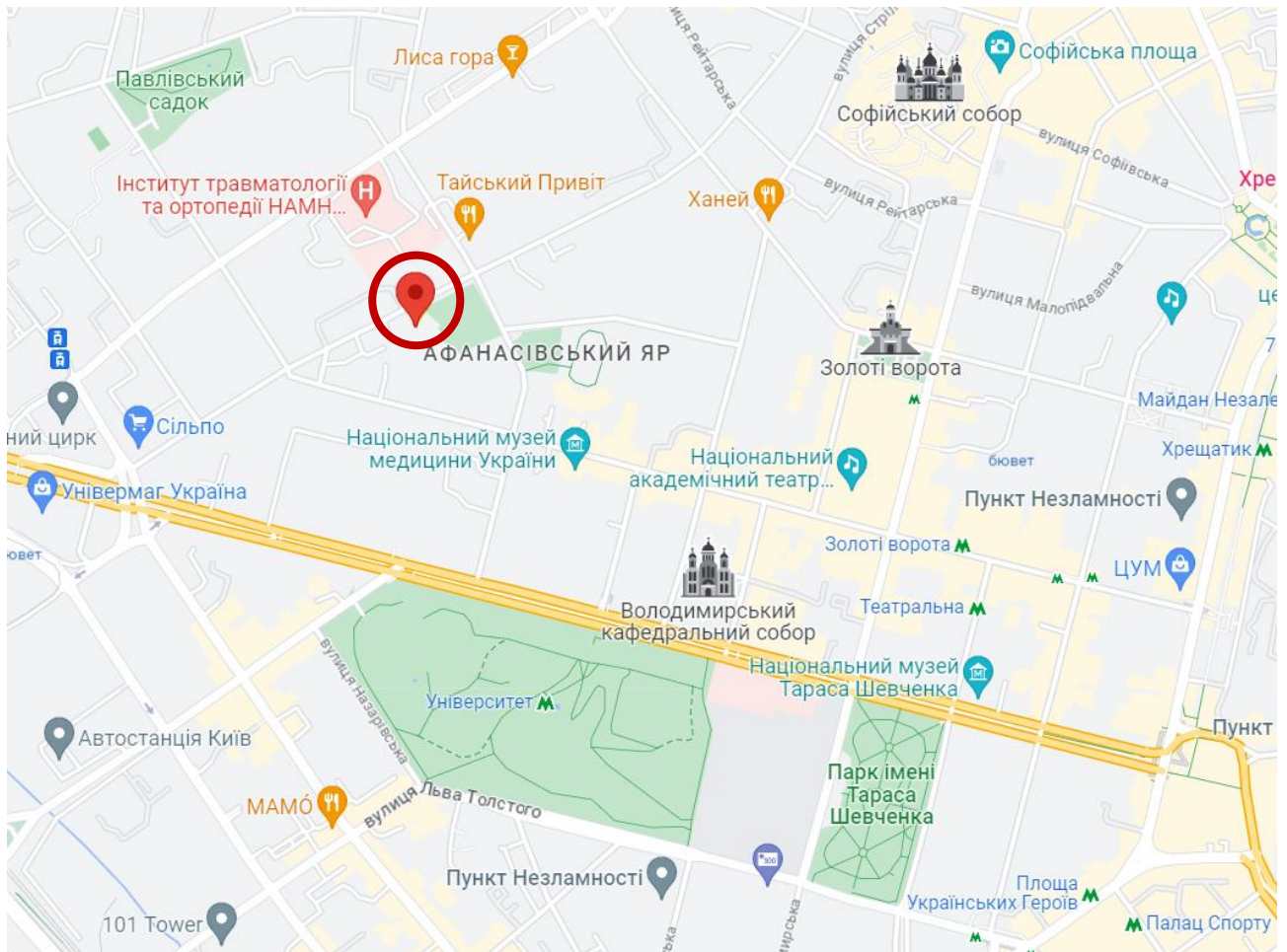
Day 2

Moderators:

PhD Dmytro Hlavatskyi
PhD Kyrylo Starodubets

10:00-10:30	KEYNOTE SPEAKER – MYKOLA LUBSKYI State Institution “Scientific Centre for Aerospace Research of the Earth” of the Institute of Geological Science of the NAS of Ukraine, Kyiv, Ukraine Topic of the report: «EARTH OBSERVATION DATA AND CLOUD PROCESSING FOR LAND DEGRADATION EARLY WARNING: EWALD PROJECT OVERVIEW»	
10:30-10:45 (in Ukrainian)	Ivanyshyn V., Kasiyanchuk D.	ANALYSIS OF THE NDVI INDEX ON THE EXAMPLE OF THE PEREHINSK TERRITORIAL COMMUNITY
10:45-11:00 (in Ukrainian)	Krakovskiy S.	A COMPARATIVE ANALYSIS OF ELECTRONIC ATLAS AND GEOPORTAL: THE CASE OF SWITZERLAND
11:00-11:15 (in Ukrainian)	Frolov G., Azimov O.	APPLICATION OF DIGITAL METHODS OF PROCESSING SATELLITE ALTIMETER DATA FOR RESEARCHING THE DYNAMICS OF SEA SURFACE CHANGE
11:15-11:30 (in English)	Arradj S.E., Chabou M.C.	LITHOLOGICAL DISCRIMINATION OF PHANEROZOIC MAGMATIC FORMATIONS IN THE DJANET TERRANE USING LANDSAT 9 AND SENTINEL 2 MSI SATELLITE IMAGE PROCESSING
11:30-11:45 (in English)	Saidi A., Djabri M., Arradj S.E.	EXPLORING LIQUEFACTION POTENTIAL THROUGH NUMERICAL MODELING
11:45-12:00 (in English)	Weldemikael B.T., Woldetinsae G., Neshir G.	GENERATING LAND GRAVITY ANOMALIES FROM SATELLITE GRAVITY OBSERVATIONS USING DEEP LEARNING IMAGE TRANSLATION
12:00-12:15 (in Ukrainian)	Medvedieva O., Halchenko Z.	ASSESSMENT OF THE NATURAL RESOURCE POTENTIAL OF ROCK DUMPS IN MINING REGIONS
12:15-12:30	CLOSING WORDS	

CONTACT ADDRESS OF THE ORGANIZING COMMITTEE



Institute of Geological Sciences, 55-b O. Honchara str., Kyiv, 01601

Conference website: <https://gc.igs-nas.org.ua>

E-mail: rmv.ign.nas@gmail.com

Kyrylo Starodubets: +38(066)-998-70-28

Olena Ganzha: +38(093)-083-53-59