EVENT PROGRAM

MONDAY, OCTOBER 07, 2024	
11^{10}-11^{40}	**Ceremonial opening** *Online Hall*
11^{40}-13^{00}	**Plenary session** • [GeoTerrace-2024-088] **Evaluating Urban Heat Island Dynamics and Land Use/Land Cover Changes in Tromsø, Norway** *L. Hebryn Baidy, G. Rees (University of Cambridge)* • [GeoTerrace-2024-035] **Potential impact of GNSS positioning errors on satellite navigationbased air traffic management during severe geomagnetic storms** *V. Kerker (Lviv Polytechnic National University), M. Linde (Military University of Aviation), S. Savchuk (Lviv Polytechnic National University)* • [GeoTerrace-2024-041] **War-related in Ukraine urban landscapes damage assessment using radar data change detection algorithm** *V. Udovychenko, I. Petrovskyi (Taras Shevchenko National University of Kyiv)* • [GeoTerrace-2024-069] **Analysis of spatial and temporal changes in the water surface area of the Kakhovka Reservoir based on satellite data** *Ye. Sazonenko, L. Pidgorodetska, L. Kolos, O. Fedorov (Space Research Institute of the NAS of Ukraine and State Space Agency of Ukraine)* *Online Hall*
13^{00}-14^{00}	**Lunch break**
14^{00}-18^{30}	**Oral session** - Earth Surface Processes & Geodynamics *Online Hall*

TUESDAY, OCTOBER 08, 2024	
09^{00}-13^{00}	**Oral session** - Fixation, Monitoring & Assessment of War Consequences and Post-War Reconstruction *Online Hall*
13^{00}-14^{00}	**Lunch break**
14^{00}-16^{30}	**Oral session** - Land Cover Mapping & UAV *Online Hall*
16^{30}-16^{45}	Coffee break
16^{45}-18^{00}	**Oral session** - GNSS & Satellite Geodesy *Online Hall*

WEDNESDAY, OCTOBER 09, 2024	
09^{00}-13^{00}	**Oral session** - Remote Sensing & GIS for Environmental Monitoring (Session 1) *Online Hall*
13^{00}-14^{00}	**Lunch break**
14^{00}-18^{15}	**Oral session** - Remote Sensing & GIS for Spatial Territory Planning *Online Hall*

THURSDAY, OCTOBER 10, 2024	
09^{00}-13^{00}	**Oral session** - Engineering Surveying & Deformation Monitoring *Online Hall*
13^{00}-14^{00}	**Lunch break**
14^{00}-17^{00}	**Oral session** - Remote Sensing & GIS for Environmental Monitoring (Session 2) *Online Hall*
17^{00}-17^{15}	Coffee break
17^{15}-17^{45}	**Summarizing the results of Conference** *Online Hall*

**In order to take part in the Conference in the online form, you need to register for free in the Online Hall.
Upon successful registration, a link to access all Conference events will be sent to the e-mail you provided.**

Earth Surface Processes & Geodynamics (*Online Hall*)
Chair of Section: dr. I. Brusak
Section Secretary: dr. I. Savchyn

Time	Presentation
14⁰⁰-14¹⁵	*[GeoTerrace-2024-022]* **PPK method of GNSS measurements for positioning the MagWalk Sensys magnetometer during magnetic survey on the archaeological sites of the Linear Pottery Culture in the vicinity of Dubno** *R. Kuderavets (Carpathian Branch of Subbotin Institute of Geophysics of the NAS of Ukraine), A. Bardetskyi (Interregional Public Scientific Organization "Dubno Archaeological Center"), A. Vivat (Lviv Polytechnic National University), T. Saile (University of Regensburg), M. Melnitschuk (Interregional Public Scientific Organization "Dubno Archaeological Center")*
14¹⁵-14³⁰	*[GeoTerrace-2024-071]* **Modeling of true polar wander (TPW) during 540 Ma** **A. Tserklevych, O. Zaiats, Ye. Shylo, *O. Shylo, T. Badlo, (Lviv Polytechnic National University)*
14³⁰-14⁴⁵	*[GeoTerrace-2024-024]* **Dynamics of erosion processes on tourist trail in the Chornohora mountain massif (Ukrainian Carpathians)** *V. Brusak, I. Hnatiak (Ivan Franko National University of Lviv), *I. Brusak, (Lviv Polytechnic National University), O. Hnatiak (Ivan Franko National University of Lviv), M. Malanchyk (Lviv Polytechnic National University)*
14⁴⁵-15⁰⁰	*[GeoTerrace-2024-028]* **Modern magnetovariation studies along the Mali Heyivtsi – Tyachiv profile of the Transcarpathian depression** **A. Stolpakov, A. Kushnir (Institute of Geophysics, National Academy of Sciences of Ukraine)*
15⁰⁰-15¹⁵	*[GeoTerrace-2024-096]* **Evaluation of total soil contamination level with the use of X-ray fluorescence** **R. Huminilovych, V. Stadnik, M. Sozanskyi, P. Shapoval (Lviv Polytechnic National University), Ž Zgorelec (University of Zagreb)*
15¹⁵-15³⁰	**Coffee break**
15³⁰-15⁴⁵	*[GeoTerrace-2024-015]* **Analysis of the co-seismic displacement caused by the 2023 Mw 6.9 High Atlas Earthquake in the Ouarzazate Province, Morocco using DInSAR** **B. Sadiq (Cadi Ayyad University), A. Kozlova, A. Andreiev (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences), H. Ibouh, D. Mezzane (Cadi Ayyad University)*
15⁴⁵-16⁰⁰	*[GeoTerrace-2024-004]* **Stream Length-Gradient (SL) Index of the Kremenets Mountains as One of the Indicators of Modern Tectonic Movements of the Region** *A. Bermes, *O. Tomeniuk, A. Bogucki (Ivan Franko National University of Lviv)*
16⁰⁰-16¹⁵	*[GeoTerrace-2024-099]* **Post-phytoremediation assessment and monitoring of military activities contaminated soils** **R. Huminilovych, M. Sozanskyi, V. Stadnik, Yu. Hrynchuk (Lviv Polytechnic National University), V. Pidlisnyuk (Jan Evangelista Purkyně University)*
16¹⁵-16³⁰	*[GeoTerrace-2024-092]* **Petrophysical features of the main rock formations of Kryvyi Rih iron ore basin** *P. Pihulevskyi (Institute of Geophysics of NAS of Ukraine), S. Yaremii, *O. Tiapkin, V. Logvin (Dnipro University of Technology), L. Anisimova (Institute of Geotechnical Mechanics of NAS of Ukraine)*
16³⁰-16⁴⁵	*[GeoTerrace-2024-067]* **Comparison of magnetic and geochemical parameters in soil for the estimation of heavy metals pollution caused by warfare** **D. Hlavatskyi (Institute of Geophysics, National Academy of Sciences of Ukraine), O. Menshov (Taras Shevchenko National University of Kyiv), Ie. Poliachenko, V. Bakhmutov (Institute of Geophysics, National Academy of Sciences of Ukraine), K. Bondar (Institute of Geophysics, Polish Academy of Sciences)*
16⁴⁵-17⁰⁰	**Coffee break**
17⁰⁰-17¹⁵	*[GeoTerrace-2024-005]* **An enhanced approach to discrimination and regression of permeability of in reservoir sandstones using Support Vector Machine** *S. Vyzhva, O. Shabatura, *V. Onyshchuk, I. Onyshchuk, D. Onyshchuk (Taras Shevchenko National University of Kyiv)*
17¹⁵-17³⁰	*[GeoTerrace-2024-002]* **Research of the geomorphologic objects and processes dynamics** *I. Kovalchuk (National University of Life and Environmental Sciences of Ukraine), *A. Mykhnovych (Ivan Franko National University of Lviv), Ir. Kovalchuk (National University of Life and Environmental Sciences of Ukraine), M. Fedoniuk (Lutsk National Technical University), T. Pavlovska (Lesya Ukrainka Volyn National University)*
17³⁰-17⁴⁵	*[GeoTerrace-2024-023]* **Indicators for identification of rare-earth type of granitoids of Ukrainian Shield and their connection with paleogeodynamics using ANN** *S. Vyzhva, A. Gozhyk, *O. Shabatura (Taras Shevchenko National University of Kyiv)*
17⁴⁵-18⁰⁰	*[GeoTerrace-2024-057]* **The use of data on the lithosphere velocity structure and modern computer technologies in the hypocentering of earthquakes of Western Ukraine** **A. Nazarevych (Carpathian Brunch of S.I.Subbotin name Institute of Geophysics of NAS of Ukraine), L. Nazarevych (S.I.Subbotin name Institute of Geophysics of NAS of Ukraine), R. Nazarevych (Company "Intellias")*

18^{00}-18^{15}	*[GeoTerrace-2024-029]* **Reconstructive possibilities of acoustic emission in assessing the stressed and deformed state of quartz-containing rocks of the foundation of hydro technical structures** **Yu. Onanko (Institute of Water Problems and Land Reclamation NAAS), O. Dmytrenko, A. Onanko, T. Pinchuk-Rugal (Taras Shevchenko National University of Kyiv), S. Pavliuk (National University of Water and Environmental Engineering)*
18^{15}-18^{30}	*[GeoTerrace-2024-001]* **Accuracy of determining vertical deformations by the method of differential interferometry** **S. Nesterenko (National University «Yuri Kondratyuk Poltava Polytechnic»)*

TUESDAY, OCTOBER 08, 2024

Fixation, Monitoring & Assessment of War Consequences and Post-War Reconstruction (*Online Hall*) *Chair of Section: dr. V. Kovtun* *Section Secretary: dr. V. Lozynskyi*	
09^{00}-09^{15}	*[GeoTerrace-2024-075]* **Possibilities of SLAM scanning implementation in martial law conditions** *V. Kovtun, O. Gera, *L. Dorosh, R. Pylypiuk (Ivano-Frankivsk National Technical University of Oil and Gas)*
09^{15}-09^{30}	*[GeoTerrace-2024-066]* **Water Occurrence Mapping of Kakhovka Reservoir after the dam destruction** **A. Kozlova, L. Lischenko, A. Andreiev, M. Lubskyi, A. Lysenko (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine)*
09^{30}-09^{45}	*[GeoTerrace-2024-063]* **Spatial planning tools for accelerated post-war recovery and sustainable development of community territories: experience and perspectives** **S. Vynohradenko, T. Anopriienko, A. Riasnianska (State Biotechnological University), V. Gurskienė (Vytautas Magnus University), V. Pukite (Latvia University of Life Sciences and Technologies)*
09^{45}-10^{00}	*[GeoTerrace-2024-044]* **Geoinformation modelling of the Lower Dnipro National Nature Park conditions as a consequence of the Kakhovka dam destruction** **S. Hordiichuk (Taras Shevchenko National University of Kyiv), A. Chernov (Private researcher), D. Liashenko, I. Stakhiv (Taras Shevchenko National University of Kyiv)*
10^{00}-10^{15}	*[GeoTerrace-2024-030]* **Analysis of resilience of the agrarian sphere of the territory of the Kyiv Prydniprovia region in the context of the influence of military operations** *O. Leiberiuk, *A. Kushnir, A. Marushchynets, V. Shvaiko, V. Molodyka (Institute of Geography of the National Academy of Sciences of Ukraine)*
10^{15}-10^{30}	**Coffee break**
10^{30}-10^{45}	*[GeoTerrace-2024-087]* **Inventory and assessment of agricultural landscapes damaged as a result of hostilities using remote sensing methods** *V. Kravchenia, *T. Malik, P. Trofymenko, M. Samko, O. Tsvyk (Taras Shevchenko National University of Kyiv)*
10^{45}-11^{00}	*[GeoTerrace-2024-013]* **Deep Learning-Based Detection of Damaged Buildings in Satellite Imagery** *T. Kozlova, Yu. Velikodsky (National Aviation University)*
11^{00}-11^{15}	*[GeoTerrace-2024-042]* **Dynamics of changes monitoring in forest vegetation in the combat zone using modern geographic information systems** **I. Sadovyy, A. Siedov (State Biotechnological University), A. Celms (Latvia University of Life Sciences and Technologies), N. Mokierova, V. Prokopenko (State Biotechnological University)*
11^{15}-11^{30}	*[GeoTerrace-2024-026]* **Bombturbation as a consequence of man-made load on the natural environment** **T. Bilyi, G. Melnyk, Ie. Poliachenko, D. Hlavatskyi, S. Cherkes (Institute of Geophysics National Academy of Sciences of Ukraine)*
11^{30}-11^{45}	*[GeoTerrace-2024-058]* **Damage assessment of the Kupiansk forest farm as a result of military actions by remotely sensed data** **M. Popov, A. Andreiev, S. Alpert, S. Golubov, A. Lysenko (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences)*
11^{45}-12^{00}	**Coffee break**
12^{00}-12^{15}	*[GeoTerrace-2024-073]* **The use of remote sensing methods for monitoring and assessing the scale of destruction during the war on the example of the southern regions of Ukraine** *Ye. Butenko, H. Shtogryn, *S. Petrychenko, V. Olishevskyi, Kh. Vasylenko (The National University of Life and Environmental Sciences of Ukraine)*
12^{15}-12^{30}	*[GeoTerrace-2024-060]* **Remote monitoring of the activation of hazardous natural processes under the war in Ukraine** **T. Orlenko, O. Tytarenko (State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Science of the National Academy of Sciences of Ukraine"), O. Tsvyk, D. Liashenko (Kyiv National University of Taras Shevchenko)*
12^{30}-12^{45}	*[GeoTerrace-2024-072]* **The use of remote sensing data for the monitoring of agricultural lands affected by hostilities** *R. Stupen, *Z. Ryzhok, O. Stupen (Lviv National Environmental University)*

12⁴⁵-13⁰⁰	*[GeoTerrace-2024-032]* **Assessment of the occurrence and spread of fires caused by hostilities in the ecosystems of Kyiv Polissia based on the data of remote sensing of the earth** **K. Klymenko, O. Nazarova (National University of Kyiv–Mohyla Academy)*
13⁰⁰-14⁰⁰	**Lunch break**

<table>
<tr><td colspan="2" align="center">Land Cover Mapping & UAV <i>(<u>Online Hall</u>)</i>
<i>Chair of Section: dr. B. Chetverikov</i>
<i>Section Secretary: dr. V. Lozynskyi</i></td></tr>
<tr><td>14⁰⁰-14¹⁵</td><td><i>[GeoTerrace-2024-011]</i> Comparative analysis of point clouds obtained from UAV for complex engineering constructions <i>N. Savchuk, * L. Babiy (Lviv Polytechnic National University), K. Bakuła, M. Pilarska-Mazurek (Warsaw University of Technology)</i></td></tr>
<tr><td>14¹⁵-14³⁰</td><td><i>[GeoTerrace-2024-051]</i> Geoinformation modelling for the selection of wind energy project sites <i>*M. Lopushanska, Ye. Ivanov (Ivan Franko National University of Lviv), Yu. Bashynska (Dolishniy Institute of Regional Research of NAS of Ukraine), O. Lopushanskyi (West Ukrainian National University), L. Tsyganok (Professional Association of Environmentalists of the World)</i></td></tr>
<tr><td>14³⁰-14⁴⁵</td><td><i>[GeoTerrace-2024-101]</i> Study of the Digital Elevation Model of the Historical and Cultural Reserve "Ancient Zvenyhorod" Based on UAV Aerial Photography and Airborne Lidar Data <i>*B. Chetverikov, I. Trevoho (Lviv Polytechnic National University)</i></td></tr>
<tr><td>14⁴⁵-15⁰⁰</td><td><i>[GeoTerrace-2024-020]</i> Walking hexapod for demining territory of postwar Ukraine <i>I. Platov, O. Pavlovskyi, Yu. Pavlovska, S. Lakoza, *O. Sapehin (Igor Sikorsky Kyiv Polytechnic Institute)</i></td></tr>
<tr><td>15⁰⁰-15¹⁵</td><td><i>[GeoTerrace-2024-040]</i> Nexus soil organic carbon and water erosion <i>*Y. Temna, S. Kokhan (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences)</i></td></tr>
<tr><td>15¹⁵-15³⁰</td><td>Coffee break</td></tr>
<tr><td>15³⁰-15⁴⁵</td><td><i>[GeoTerrace-2024-021]</i> Complementing terrestrial laser scanning results with UAVs <i>O. Adamenko, R. Demianenko, O. Isayev, *V. Soroka, Yu. Medvedskyi (Kyiv National University of Construction and Architecture)</i></td></tr>
<tr><td>15⁴⁵-16⁰⁰</td><td><i>[GeoTerrace-2024-083]</i> Deciphering of aerial photographs in the conditions of application of radio electronic warfare equipment <i>*T. Kravets, O. Polets (Hetman Petro Sahaidachnyi National Army Academy)</i></td></tr>
<tr><td>16⁰⁰-16¹⁵</td><td><i>[GeoTerrace-2024-082]</i> Mapping the erosion damage of agricultural landscapes in Cherkasy region <i>*N. Sopova (Uman National University of Horticulture), O. Kyseliova (Luhansk Taras Shevchenko National University), Yu. Kyselov (Uman National University of Horticulture), I. Cherednychenko, D. Sopov (Luhansk Taras Shevchenko National University)</i></td></tr>
<tr><td>16¹⁵-16³⁰</td><td><i>[GeoTerrace-2024-012]</i> Assessment and mapping of microclimatic features in complex architectural structures in Lutsk <i>A. Pankevych (Horbachevsky Ternopil National Medical University), *V. Fedoniuk (Lutsk National Technical University), O. Vovk (Lesya Ukrainka Volyn National University), S. Pankevych (Lutsk National Technical University)</i></td></tr>
<tr><td>16³⁰-16⁴⁵</td><td>Coffee break</td></tr>
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<tr><td colspan="2" align="center">GNSS & Satellite Geodesy <i>(<u>Online Hall</u>)</i>
<i>Chair of Section: dr. S. Doskich</i>
<i>Section Secretary: dr. V. Lozynskyi</i></td></tr>
<tr><td>16⁴⁵-17⁰⁰</td><td><i>[GeoTerrace-2024-008]</i> Verification of GNSS stations from the GeoTerrace network for further geodynamic studies using PS-NETM software <i>*S. Doskich, O.-M. Serant (Lviv Polytechnic National University)</i></td></tr>
<tr><td>17⁰⁰-17¹⁵</td><td><i>[GeoTerrace-2024-048]</i> Semi-automatic anomaly detection in GNSS time series using machine learning algorithms <i>O. Haidus (Lviv Polytechnic National University), K. Maciuk (AGH University of Krakow) I. Brusak (Lviv Polytechnic National University)</i></td></tr>
<tr><td>17¹⁵-17³⁰</td><td><i>[GeoTerrace-2024-053]</i> Assessment of Saastamoinen zenith hydrostatic tropospheric delay accuracy in different latitudes <i>*B. Kladochnyi, F. Zablotskyi (Lviv Polytechnic National University)</i></td></tr>
<tr><td>17³⁰-17⁴⁵</td><td><i>[GeoTerrace-2024-050]</i> Features of 3D modelling of building facades using i89 GNSS receiver with dual camera <i>*O. Shevchenko, K. Mykhailyk, O. Pron, A. Moskalenko, I. Illiashov (National University of Life and Environmental Sciences of Ukraine)</i></td></tr>
<tr><td>17⁴⁵-18⁰⁰</td><td><i>[GeoTerrace-2024-090]</i> Architectural features of a promising intelligent space weather data processing system for increasing the efficiency of radio equipment of civil aviation for the conditions of Ukraine <i>*G. Kalashnyk, M. Kalashnyk-Rybalko (Flight Academy of National Aviation University)</i></td></tr>
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Remote Sensing & GIS for Environmental Monitoring (Session 1) *(Online Hall)* *Chair of Section: dr. Kh. Marusazh* *Section Secretary: Ju. Denys*	
09⁰⁰-09¹⁵	*[GeoTerrace-2024-093]* **Remote sensing analysis of Krakow's urbanization and green space evolution (1993-2023)** *L. Hebryn Baidy (University of Cambridge), O. Zheleznyak, S. Alpert (National Aviation University)*
09¹⁵-09³⁰	*[GeoTerrace-2024-103]* **Assessment of the primary growth of wood biomass on the example of the Carpathian national nature park based on satellite survey materials to characterize the condition of forests** *A. Apostolov, A. Khodorovskyi, L. Yelistratova, *M. Tymchyshyn (State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Science of the National Academy of Sciences of Ukraine")*
09³⁰-09⁴⁵	*[GeoTerrace-2024-018]* **Geoinformation analysis and assessment of the modern hydrographic network of the Borzhava River basin (Transcarpathian region)** *M. Vovkunovych, *M. Karabiniuk (Uzhhorod National University), O. Burianyk (Ivan Franko National University of Lviv), S. Sukharev, V. Chyniak (Uzhhorod National University)*
09⁴⁵-10⁰⁰	*[GeoTerrace-2024-055]* **Application of geoinformation technologies in alternative energy** *V. Semeniaka, O. Bondarenko, V. Zatserkovnyi, O. Ilchenko (Taras Shevchenko National University of Kyiv)*
10⁰⁰-10¹⁵	*[GeoTerrace-2024-039]* **Identification of soil erosion risk areas in the Carpathian forests using GIS methods** *O. Hnatiuk (Ukrainian Mountain Forestry Research Institute named after P.S. Pasternak), A. Ivaniuk (National Forestry University of Ukraine), V. Mohytych (Forest Research Institute), A. Vovk (Lviv Polytechnic National University)*
10¹⁵-10³⁰	**Coffee break**
10³⁰-10⁴⁵	*[GeoTerrace-2024-010]* **Study of the trend of the Urban Heat Island effect in Kyiv from 1985 to 2024** *L. Kokosha (Taras Shevchenko National University of Kyiv)*
10⁴⁵-11⁰⁰	*[GeoTerrace-2024-017]* **Spatial analysis of the relationship between the distribution of landslide areas and forest cover** *I. Chepurnyi, V. Rushchak, T. Chepurna (Ivano-Frankivsk National Technical University of Oil and Gas)*
11⁰⁰-11¹⁵	*[GeoTerrace-2024-102]* **Spatio-temporal forest harvesting in Dzukija National Park (Lithuania)** *A. Ju. L. M. Roy, P. Pereira, L. V. Pinto, M, Inácio, E. Baltranaitė (Mykolas Romeris University)*
11¹⁵-11³⁰	*[GeoTerrace-2024-064]* **Remote Sensing-Based Monitoring of Methane Emissions in the Carpathian Region** *B. Karpinskyi, L. Davybida (Ivano-Frankivsk National Technical University of Oil and Gas)*
11³⁰-11⁴⁵	*[GeoTerrace-2024-076]* **GIS resources as a tool for monitoring and managing river basin conditions** *V. Skyba, (Dmytro Motorny Tavria State Agrotechnological University) N. Vozniuk, S. Vozniuk (National University of Water and Environmental Engineering)*
11⁴⁵-12⁰⁰	**Coffee break**
12⁰⁰-12¹⁵	*[GeoTerrace-2024-038]* **The use of GIS technologies in determining the method of reclamation for phytotoxic mine waste dumps** *O. Masiuk, V. Dziuman (Oles Honchar Dnipro National University), V. Matsiuk (Dnipro State Agrarian and Economic University)*
12¹⁵-12³⁰	*[GeoTerrace-2024-025]* **Analysis of NDWI dynamics of agrilandscapes affected by Kakhovka dam ruination** *V. Bogdanets, I. Vereshchak, V. Nosenko, Ya. Polishchuk (National University of Life and Environmental Sciences of Ukraine)*
12³⁰-12⁴⁵	*[GeoTerrace-2024-084]* **Analysis of the land cover structure dynamics of landscapes in the Chernobyl Nuclear Power Plant exclusion zone (methodical aspect)** *L. Sorokina (Institute of Geography of the National Academy of Sciences of Ukraine), Ye. Tsyhanok (Taras Shevchenko National University of Kyiv)*
12⁴⁵-13⁰⁰	*[GeoTerrace-2024-078]* **Analysis of wildfire occurrence based on remote data in the Lutsk district (2012-2022)** *I. Kovalchuk (National University of Life and Environmental Sciences of Ukraine), *M. Fedoniuk (Lutsk National Technical University), I. Kovalchuk (National University of Life and Environmental Sciences of Ukraine), V. Fedoniuk (Lutsk National Technical University), O. Vovk (Lesya Ukrainka Volyn National University)*
13⁰⁰-14⁰⁰	**Lunch break**

Remote Sensing & GIS for Spatial Territory Planning *(Online Hall)* *Chair of Section: dr. O. Malashevska* *Section Secretary: dr. Kh. Marusazh*	
14⁰⁰-14¹⁵	*[GeoTerrace-2024-068]* **Assessment of the agricultural potential of a territorial community based on soil suitability mapping for crop cultivation** *Yo. Dorosh, Sh. Ibatullin, O. Sakal, I. Kupriianchyk, M. Bratinova (Land Management Institute of National Academy of Agrarian*

	Sciences of Ukraine)
14¹⁵-14³⁰	*[GeoTerrace-2024-043]* **The cartographic basis of the stormwater system in Kharkiv** **M. Pilicheva, K. Mamonov, E. Shterndok, V. Goi (O.M. Beketov National University of Urban Economy in Kharkiv)*
14³⁰-14⁴⁵	*[GeoTerrace-2024-070]* **Application of GIS for analysis and monitoring of reclaimed lands in the context of current challenges** *Yo. Dorosh (Land Management Institute of National Academy of Agrarian Sciences of Ukraine), I. Kupriianchyk (National University of Life and Environmental Sciences of Ukraine), *R. Kharytonenko, R. Derkulskyi, D. Melnyk (Land Management Institute of National Academy of Agrarian Sciences of Ukraine)*
14⁴⁵-15⁰⁰	*[GeoTerrace-2024-045]* **Processing method of Sentinel-1 satellite images for the analysis of growing of agricultural crops** **Z. Ryzhok, O. Stupen, R. Stupen (Lviv National Environmental University)*
15⁰⁰-15¹⁵	*[GeoTerrace-2024-047]* **Spatial analysis of land use changes based on remote sensing data (on the example of the suburban area of Ivano-Frankivsk)** **L. Zahriichuk, R. Lozynskyy (Ivan Franko National University of Lviv)*
15¹⁵-15³⁰	**Coffee break**
15³⁰-15⁴⁵	*[GeoTerrace-2024-089]* **Development of GIS tools for the automated normative monetary valuation of land plots** **R. Shulgan, K. Nikolaichuk, K. Vorobey (National University of Water and Environmental Engineering)*
15⁴⁵-16⁰⁰	*[GeoTerrace-2024-081]* **The Spatial Analysis in the Course of the Rural Territorial Community Household Land Tenure Optimization** *M. Malashevskyi (The National Academy of Agrarian Sciences of Ukraine), *O. Malashevska (National University of Life and Environmental Sciences of Ukraine), A. Tarnopolskyi (The National Academy of Agrarian Sciences of Ukraine), Yu. Mosiychuk (Independent researcher), Ye. Tarnopolskyi, (The National Academy of Agrarian Sciences of Ukraine)*
16⁰⁰-16¹⁵	*[GeoTerrace-2024-074]* **Application of GIS in establishing (changing) the boundaries of administrative-territorial units on the example of rural settlements** *Ye. Butenko (The National University of Life and Environmental Sciences of Ukraine), Ye. Tarnopolskyi, V. Saliuta, D. Melnyk, *V. Olishevskyi (The Land Management Institute of National Academy of Agrarian Sciences of Ukraine)*
16¹⁵-16³⁰	*[GeoTerrace-2024-098]* **Differential Technologies for Precision Agriculture** **V. Semeniaka, V. Zatserkovnyi, V. Vorokh (Taras Shevchenko National University of Kyiv), L. Ilyin (Lesya Ukrainka Volyn National University), T. Mironchuk (Taras Shevchenko National University of Kyiv)*
16³⁰-16⁴⁵	*[GeoTerrace-2024-061]* **Spatial differentiation, problems of use, and optimization of lakewetland complexes in the Volyn region, Ukraine** **O. Ilyina, L. Ilyin (Lesya Ukrainka Volyn National University)*
16⁴⁵-17⁰⁰	**Coffee break**
17⁰⁰-17¹⁵	*[GeoTerrace-2024-080]* **The use of satellite images for physical-geographical regionalization as illustrated on the example of the Khmelnytskyi oblast** **U. Komarova, K. Będkowski (University of Lodz)*
17¹⁵-17³⁰	*[GeoTerrace-2024-056]* **Assessment of Green Space's State Along Highways: A Case Study of Kiltseva Road (Kyiv, Ukraine)** **K. Vorobiova, O. Kozak (National University of Kyiv–Mohyla Academy), D. Khlobystov (Taras Shevchenko National University of Kyiv)*
17³⁰-17⁴⁵	*[GeoTerrace-2024-037]* **The assessment of economic use of the catchment areas of different types of lakes in the Volyn region** **L. Ilyin, O. Ilyina (Lesya Ukrainka Volyn National University), N. Ilchuk (Lutsk National Technical University), I. Tyshchuk (Lesya Ukrainka Volyn National University)*
17⁴⁵-18⁰⁰	*[GeoTerrace-2024-077]* **GIS in Territory Management for the Site Selection of Wastewater Treatment Facilities in the Communities of Pierzszczyna and Chmielnik, Poland** **I. Oleksiuk, D. Kasiyanchuk (Ivano-Frankivsk national technical university of oil and gas)*
18⁰⁰-18¹⁵	*[GeoTerrace-2024-100]* **Application of modern methods for anthropogenic impact in the Dniester reservoir using remote sensing tools** **O. Hulko, Yu. Hubar, N. Tsudna (Lviv Polytechnic National University)*
18¹⁵-18³⁰	*[GeoTerrace-2024-034]* **Spatial planning of territories of territorial communities** **M. Melnyk, N. Stupen (Lviv Polytechnic National University), I. Bida (Ivano-Frankivsk National Technical University of Oil and Gas)*
18³⁰-18⁴⁵	*[GeoTerrace-2024-086]* **Integrated method for assessing information support of real estate cadastre at regional level** **K. Mamonov, V. Holovachov, O. Horb (O.M. Beketov National University of Urban Economy in Kharkiv) A. Palamar (Kryvyi Rih National University)*

	Engineering Surveying & Deformation Monitoring (*Online Hall*) *Chair of Section: dr. A. Khoptar* *Section Secretary: Ju. Denys*
09⁰⁰-09¹⁵	*[GeoTerrace-2024-016]* **Prospects of geodetic calibration baselines for increasing geodetic measurement accuracy** *A. Khoptar, J. Lechner (Výzkumný ústav geodetický, topografický a kartografický, v.v.i.), R. Vanchura (West Ukrainian National University)*
09¹⁵-09³⁰	*[GeoTerrace-2024-097]* **Monitoring the deformation of the earth's surface the main gas pipeline with application of GNSS technologies** *I. Openko, M. Kozhemiako, R. Tykhenko, Ye. Kryvoviaz, A. Koshel (National University of Life and Environmental Sciences of Ukraine)*
09³⁰-09⁴⁵	*[GeoTerrace-2024-085]* **Investigation of the accuracy of a three-dimensional model of a monument created using LIDAR iPhone12Pro** *O. Yanchuk, R. Yanchuk, A. Kibysh, O. Lazarets (National University of Water and Environmental Engineering), Ye. Tesliuk (TOV «Rivneavtoshlyahbud»)*
09⁴⁵-10⁰⁰	*[GeoTerrace-2024-054]* **Determination of the features of distribution deviations on the Earth's surface deformations based on the results of geodetic observations** *M. Kozhemiako, N. Kolesnik (National University of Life and Environmental Sciences of Ukraine)*
10⁰⁰-10¹⁵	*[GeoTerrace-2024-091]* **Correct use of the evaluation formula for the calculation of quantities from measured values** *M. Fys, P. Pukach, *A. Brydun, I. Demkiv (Lviv Polytechnic National University)*
10¹⁵-10³⁰	**Coffee break**
10³⁰-10⁴⁵	*[GeoTerrace-2024-027]* **Historical virtual reconstruction of Przemyśl Fortress forts using geodetic methods: the case of I/4 Maruszka Las Fort in Ukraine** *I. Savchyn, S. Repekhovych (Lviv Polytechnic National University)*
10⁴⁵-11⁰⁰	*[GeoTerrace-2024-052]* **Innovative approaches to creating a register of especially valuable nature protection objects using Slam and 3D scanning technologies** *V. Kovtun, L. Dorosh (Ivano-Frankivsk National Technical University of Oil and Gas), O. Kutsenko, D. Matviichuk (National University of Life and Environmental Sciences of Ukraine)*
11⁰⁰-11¹⁵	*[GeoTerrace-2024-095]* **Monitoring the position of overhead crossings of main pipelines using total stations** *I. Trevoho (Lviv Polytechnic National University), D. Kukhtar, E. Ilkiv, *D. Zhytar (Ivano-Frankivsk National Technical University of Oil and Gas), Ie. Lavrishko (TzoV Mirnychyy)*
11¹⁵-11³⁰	*[GeoTerrace-2024-046]* **Assessment of residual errors and their consideration in special geodetic networks** *M. Fys, *A. Vivat, V. Lozynskyi, T. Khometa (Lviv Polytechnic National University)*
11³⁰-11⁴⁵	*[GeoTerrace-2024-009]* **Practical results of geodesic monitoring of space-time deformations of the building object** *S. Khropot, *V. Demchenko (Odessa State Academy of Civil Engineering and Architecture)*
11⁴⁵-12⁰⁰	**Coffee break**
12⁰⁰-12¹⁵	*[GeoTerrace-2024-065]* **The impact of supplementary measurements on high-accuracy leveling under two-horizon conditions** *I. Trevoho (Lviv Polytechnic National University), E. Ilkiv, D. Zhytar (Ivano-Frankivsk National Technical University of Oil and Gas), Ie. Lavrishko (CEO & owner)*
12¹⁵-12³⁰	*[GeoTerrace-2024-079]* **Inclinometric monitoring of a soil massif during the construction in the complicated soil conditions in the city of Kyiv** *A. Banakh (Zaporizhzhia National University), *I. Sviatohorov (Kyiv National University of Construction and Architecture)*
12³⁰-12⁴⁵	*[GeoTerrace-2024-094]* **Mathematical and statistical modelling of accuracy determination of calculating areas of real estate objects** *Yu. Hubar, Yu. Khavar, V. Sai, *M. Svidrak (Lviv Polytechnic National University)*
13⁰⁰-14⁰⁰	**Lunch break**

	Remote Sensing & GIS for Environmental Monitoring (Session 2) (*Online Hall*) *Chair of Section: dr. D. Kin* *Section Secretary: Ju. Denys*
14⁰⁰-14¹⁵	*[GeoTerrace-2024-014]* **GIS support of forming spatial decisions on land plots selection for post-war reconstruction of territories** *K. Mykhailyk, A. Moskalenko, O. Shevchenko, O. Pron (National University of Life and Environmental Sciences of Ukraine)*
14¹⁵-14³⁰	*[GeoTerrace-2024-019]* **The concept of creating an interactive cartographic web application for tourist promotion of the Podillia region** *M. Yurkiv, V. Nikulishyn, Yu. Holubinka, D. Marchenko (Lviv Polytechnic National University)*
14³⁰-14⁴⁵	*[GeoTerrace-2024-006]* **Innovative Approaches to Big Earth Observation Data Processing in Earth**

	Science *R. Okhrimchuk, V. Demidov, K. Sliusar (Taras Shevchenko National University of Kyiv)*
14⁴⁵-15⁰⁰	*[GeoTerrace-2024-031]* **Some aspects of modelling a real estate decision-making expert system based on GIS** *O. Pomortseva (V.N. Karazin Kharkiv National University), S. Kobzan (O.M. Beketov National University of Urban Economy in Kharkiv), D. Kin (Kyiv National University of Construction and Architecture), V. Pankiv (V.N. Karazin Kharkiv National University)*
15⁰⁰-15¹⁵	*[GeoTerrace-2024-003]* **Conceptual model of topological constraints for the geospatial database of a topographic map at a scale of 1:10 000** *A. Lyashchenko, Yu. Karpinskyi, *D. Kin, N. Lazorenko*
15¹⁵-15³⁰	**Coffee break**
15³⁰-15⁴⁵	*[GeoTerrace-2024-049]* **Geoecological analysis of the urban system: structure, algorithms, principles of monitoring** *I. Kovalchuk (National University of Life and Environmental Sciences of Ukraine), Ye. Ivanov (Ivan Franko National University of Lviv), I. Kovalchuk (National University of Life and Environmental Sciences of Ukraine), O. Pylypovych (Ivan Franko National University of Lviv)*
15⁴⁵-16⁰⁰	*[GeoTerrace-2024-062]* **Methods of applying rigorous mathematical methods for geodetic and cartometric operations** *D. Kin, Yu. Karpinskyi (Kyiv National University of Construction and Architecture)*
16⁰⁰-16¹⁵	*[GeoTerrace-2024-059]* **Development of a mapping web application for paleo-soil research of the Holocene stage of the plain territory of Ukraine** *O. Leiberiuk, A. Kushnir, V. Shvaiko (Institute of Geography of NAS of Ukraine)*
16¹⁵-16³⁰	*[GeoTerrace-2024-036]* **GIS and remote sensing methods in the investigation of modern soil erosion processes on the Rivne plateau** *G. Bayrak, A. Denysiuk (Ivan Franko National University of Lviv)*
16³⁰-16⁴⁵	*[GeoTerrace-2024-007]* **Customization of the Land Surface Temperature visualization in the Copernicus EO-Browser service** *Yu. Fedoniuk (Lesya Ukrainka Volyn National University), *M. Fedoniuk, D. Riznyk (Lutsk National Technical University), A. Fedoniuk (Lesya Ukrainka Volyn National University), V. Fedoniuk (Lutsk National Technical University)*
16⁴⁵-17⁰⁰	*[GeoTerrace-2024-033]* **Alternative tools for modern agroecological research** *V. Skyba (Dmytro Motornyi Tavria State Agrotechnological University), N. Vozniuk, O. Likho, S. Vozniuk (National University of Water and Environmental Engineering), O. Buhaiev (Dmytro Motornyi Tavria State Agrotechnological University)*
17⁰⁰-17¹⁵	**Coffee break**
17¹⁵-17⁴⁵	**Summarizing the results of Conference** (*Online Hall*)