EAGE

GeoTerrace Conference

INTERNATIONAL CONFERENCE OF YOUNG PROFESSIONALS

«GEOTERRACE 2025»

October 6–9, 2025

Lviv, Ukraine

CONFERENCE PROGRAMME

Dear Colleagues and Friends,

It is with great excitement that we welcome you to the **9th International Conference of Young Professionals "GeoTerrace-2025"**, held on **October 6–9, 2025**, at the **Institute of Geodesy, Lviv Polytechnic National University, Ukraine**.

For the **fifth consecutive time**, this event is proudly co-organized with the **European Association of Geoscientists and Engineers (EAGE)** – a global community of over **19,000 members** dedicated to advancing knowledge and innovation. This partnership strengthens our mission: to connect young professionals with the international scientific world.

"GeoTerrace-2025" is more than a scientific meeting – it is a **platform for inspiration, collaboration, and discovery**. Here you will find the opportunity to share your research, exchange fresh ideas, and engage in dialogue that may spark future projects and lasting partnerships. Our focus spans a wide spectrum of disciplines – **Geodesy, Geology, Geophysics, Geodynamics, Monitoring, Photogrammetry, Mapping, Remote Sensing, and GIS** – all united by a passion for understanding the Earth and shaping a sustainable future.

This year's format is especially exciting: we begin with a **hybrid day in Lviv**, offering both in-person and online participation, followed by **fully online sessions**. This approach allows us to bring together participants from across the globe, combining the energy of face-to-face discussions with the accessibility of digital engagement.

We encourage you to use these days to **connect, question, and imagine boldly**. This is your chance to meet peers, to build networks, and to grow as scientists and professionals.

Thank you for being part of "GeoTerrace-2025." Together, let us make this conference a memorable and inspiring experience.

With best wishes,
Organizing Committee
GeoTerrace-2025

PROGRAMME

EVENT PROGRAM

MONDAY, OCTOBER 06, 2025	
10^{00}-11^{00}	**Participant registration** *Student Library of Lviv Polytechnic National University,* *3 Metropolyt Andrey Street, 3rd Floor and Online Hall*
11^{00}-11^{40}	**Ceremonial opening** *Student Library of Lviv Polytechnic National University,* *3 Metropolyt Andrey Street, 3rd Floor and Online Hall*
11^{40}-13^{00}	**Plenary session** • *[GeoTerrace-2025-060]* **Comprehensive Geodetic Station for Multi-Technique Ground Motion Monitoring** **I. Savchyn (Lviv Polytechnic National University), D. Kukhtar (Ivano-Frankivsk National Technical University of Oil and Gas), N. Danyliv (Lviv Polytechnic National University)* • *[GeoTerrace-2025-019]* **Geoinformation modelling of climatic factors for the development of wind energy (on the example of Lviv region)** **M. Lopushanska (Professional Association of Environmentalists of the World (PAEW), O. Copcuoglu (Atlas Global Energy LLC)* • *[GeoTerrace-2025-004]* **Using laser scanning and photogrammetry tech for digitizing cultural and artistic heritage sites that are at risk of being destroyed during the Russian-Ukrainian war** **M. Yasinskyi, I. Pohranychna, N. Ratushynskyi, M. Khokhon (Lviv Polytechnic National University)* • *[GeoTerrace-2025-051]* **Integrated phytoremediation monitoring of former military sites using Miscanthus x giganteus: A XRF analysis approach** **R. Guminilovych, M. Sozanskyi, V. Stadnik, P. Shapoval (Lviv Polytechnic National University), V. Pidlisnyuk (Jan Evangelista Purkyně University)* *Student Library of Lviv Polytechnic National University,* *3 Metropolyt Andrey Street, 3rd Floor and Online Hall*
13^{00}-14^{00}	**Lunch break**
14^{00}-17^{00}	**Oral session -** *Multidisciplinary Session* *Student Library of Lviv Polytechnic National University,* *3 Metropolyt Andrey Street, 3rd Floor and Online Hall*
17^{00}-18^{00}	**Icebreaker dinner** *Student Library of Lviv Polytechnic National University,* *3 Metropolyt Andrey Street, 3rd Floor and Online Hall*

TUESDAY, OCTOBER 07, 2025	
09^{00}-12^{30}	**Oral session** – *Earth Surface Processes, Geodynamics, and Subsurface Exploration* *Online Hall*
13^{00}-14^{00}	**Lunch break**
14^{00}-18^{30}	**Oral session** – *GIS Technologies for Decision-Making and Management* *Online Hall*

WEDNESDAY, OCTOBER 08, 2025	
09^{00}-13^{00}	**Oral session** – *Remote Sensing for Environmental Monitoring (Session 1)* *Online Hall*
13^{00}-14^{00}	**Lunch break**
14^{00}-18^{45}	**Oral session** – *Geodetic and Satellite Technologies for Engineering and Deformation Monitoring* *Online Hall*

THURSDAY, OCTOBER 09, 2025	
09^{00}-13^{00}	**Oral session** – *Remote Sensing for Environmental Monitoring (Session 2)* *Online Hall*
13^{00}-14^{00}	**Lunch break**
14^{00}-16^{30}	**Oral session** – *War Damage Assessment and Post-War Reconstruction* *Online Hall*
16^{30}-16^{45}	Coffee break
16^{45}-17^{45}	**Oral session** – *Digital technologies for Agricultural and Spatial Territory Planning* *Online Hall*
17^{45}-18^{15}	**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.

MONDAY, OCTOBER 06, 2025

	Multidisciplinary Session *Student Library of Lviv Polytechnic National University,3 Metropolyt Andrey Street, 3rd Floor and Online Hall* *Chair of Section: dr. I. Brusak* *Section Secretary: M. Biala*
14^{00}-14^{15}	*[GeoTerrace-2025-033]* **Estimation of natural geodynamic deformations of the territory around Kaniv HPP based on GNSS CORS network data** **I. Brusak, A. Kozak, N. Savchuk (Lviv Polytechnic National University)*
14^{15}-14^{30}	*[GeoTerrace-2025-014]* **Hydrocarbon Prospectivity of Upper Jurassic Deposits in the Outer Zone of the Carpathian Foredeep** **I. Bubniak, M. Bihun (Lviv Polytechnic National University)*
14^{30}-14^{45}	*[GeoTerrace-2025-096]* ***Geomorphological hazardous multi-criteria analysis: a case study of Stebnyk, Ukraine*** **M. Biala, B. Chetverikov (Lviv Polytechnic National University)*
14^{45}-15^{00}	*[GeoTerrace-2025-085]* **GIS platform development for managing human-wildlife conflicts in the Carpathians** **Y. Andreichuk (Ivan Franko National University of Lviv), R. Cherepanyn (Vasyl Stefanyk Precarpathian National University, World Wide Fund for Nature Ukraine – WWF-Ukraine)*
15^{00}-15^{15}	*[GeoTerrace-2025-064]* **Challenges of the Thermal Modelling in Solotvyno Depression (Transcarpathian) for the Tasks of Oil-and-Gas and Geothermal Studies** **D. Akimova (Taras Shevchenko National University of Kyiv) V. Skrypnyk (Ukrainian Research and Development Institute of Natural Gases)*
15^{15}-15^{30}	*[GeoTerrace-2025-080]* **Spatiotemporal Analysis of Vegetation Stress in the Mykhailivskyi and Yelanets Steppes under Climate Aridization (2010–2024)** **K. Klymenko, S. Boychenko (National University of Kyiv-Mohyla Academy)*
15^{30}-15^{45}	**Coffee break**
15^{45}-16^{00}	*[GeoTerrace-2025-040]* **Use of drones for target positioning** **T. Kravets (Hetman Petro Sahaidachnyi National Army Academy)*
16^{00}-16^{15}	*[GeoTerrace-2025-046]* **Comparative Evaluation of ArcGIS Tools for Hydrological Data Analysis** **Ya. Tarasovych, V. Nikulishyn (Lviv Polytechnic National University)*
16^{15}-16^{30}	*[GeoTerrace-2025-056]* **Satellite Monitoring of Technogenically Hazardous Areas in Poltava Region** **K. Bulyha, S. Nesterenko (National University «Yuri Kondratyuk Poltava Polytechnic»), L. Nesterenko (Ukrainian Physics and Mathematics Lyceum of Taras Shevchenko National University of Kyiv)*
16^{30}-16^{45}	*[GeoTerrace-2025-062]* **Application of network analysis for researching accessibility to urban parks in Lviv** **U. Banakh (Ivan Franko National University of Lviv)*
16^{45}-17^{00}	*[GeoTerrace-2025-097]* ***Polygonal Vectorization and Spatial Assessment of Water Bodies in Krasnokutsk Using Remote Sensing and QGIS Tools*** **R. Kalashnikov, R. Lysak, A. Achasov (V.N. Karazin Kharkiv National University), A. Siedov (State Biotechnological University), O. Seliverstov (V.N. Karazin Kharkiv National University)*

17^{00}-18^{00}	**Icebreaker dinner** *Student Library of Lviv Polytechnic National University,* *3 Metropolyt Andrey Street, 3rd Floor*

TUESDAY, OCTOBER 07, 2025

	Earth Surface Processes, Geodynamics, and Subsurface Exploration *(Online Hall)* *Chair of Section: dr. S. Doskich* *Section Secretary: dr. A. Fedorchuk*
09^{00}-09^{15}	*[GeoTerrace-2025-005]* **Long-term PPP-derived ZTD series for regional climate studies** **S. Doskich, L. Yankiv-Vitkovska (Lviv Polytechnic National University), N. Kablak (Warsaw University of Technology), I. Romanyszyn (Kielce University of Technology)*
09^{15}-09^{30}	*[GeoTerrace-2025-035]* **Assessment of gravity and height anomaly changes due to a possible transition of UCS-2000 to the GRS80 ellipsoid** **Iu. Lukianchenko, O. Lopushanskyi, M. Gumennyi, S. Chaikivska (West Ukrainian National University)*
09^{30}-09^{45}	*[GeoTerrace-2025-032]* **Spatial Analysis of Height Differences of Global and Regional Geoid/Quasi-geoid Models in the Polish-Ukrainian Border Zone** **A. Fedorchuk (Lviv Polytechnic National University)*
09^{45}-10^{00}	*[GeoTerrace-2025-071]* **Petrophysical features of the rocks of the sedimentary cover of the Kryvyi Rih iron ore basin** *P. Pihulevskyi (S. Subbotin Institute of geophysics, National Academy of Sciences of Ukraine), *S. Yaremii (Dnipro University of Technology of Ukraine, Dnipro), L. Anisimova (M.S. Poliakov Institute of Geotechnical Mechanics, National Academy of Sciences of Ukraine), V. Logvin (Dnipro University of Technology of Ukraine,), O. Kyryliuk (National Academy of the Security Service of Ukraine)*

10^{00}-10^{15}	**Coffee break**
10^{15}-10^{30}	*[GeoTerrace-2025-009]* **Mechanisms of Chemical Composition Formation of the Alluvial Aquifer Groundwaters in the Influence Area of Safonivske Uranium Deposit** **K. Yaroshenko, I. Koliabina, Ye. Dramaretskyi, I. Romaniuk, T. Holikova (Institute of Geological Sciences of National Academy of Sciences of Ukraine)*
10^{30}-10^{45}	*[GeoTerrace-2025-034]* **Systems of brittle deformation and the paleostress fields of their formation in Neogene deposits of the southeastern part of the Solotvyn Sub-basin (Transcarpatian Basin, Ukraine)** *V. Alokhin (Donetsk National Technical University), Ya. Kasianchuk, *S. Shekhunova (Institute of Geological Sciences of the National Academy of Sciences of Ukraine)*
10^{45}-11^{00}	*[GeoTerrace-2025-013]* **On the clarification of the hypocentering of natural and technogenic earthquakes in the Boryslav – Stebnyk area (Ukrainian Precarpathians)** **A. Nazarevych (Carpathian Brunch of Subbotin Institute of Geophysics of NAS of Ukraine), L. Nazarevych (S. Subbotin Institute of Geophysics of NAS of Ukraine, department of seismicity of the Carpathian region (DSCR)), R. Nazarevych (Ivan Franko National University of Lviv, Faculty of Electronics and Computer Technologies), M. Khmilovska (Company N-iX)*
11^{00}-11^{15}	*[GeoTerrace-2025-098]* **Visualization of lithology characteristics of the geological section of wells using information and software V. Volovetskyi (Joint Stock Company "Ukrtransgaz")** **Y. Romanyshyn (Ivano-Frankivsk National Technical University of Oil and Gas) O. Levin (Joint Stock Company "Ukrtransgaz") V. Sheketa, R. Vovk (Ivano-Frankivsk National Technical University of Oil and Gas)*
11^{15}-11^{30}	**Coffee break**
11^{30}-11^{45}	*[GeoTerrace-2025-070]* **Device for measuring the longitudinal and transverse velocities of ultrasonic waves in hydrotechnical structures using calibration marks** **S. Kuzmych (Kherson State Agrarian and Economic University), V. Guryn (National University of Water and Environmental Engineering), L. Kuzmych (Kherson State Agrarian and Economic University), P. Il'in (National University of Life and Environmental Sciences of Ukraine)*
11^{45}-12^{00}	*[GeoTerrace-2025-072]* **Research on the resistance of sandstone as water resource reservoir rocks to radiation and heating, as damaging factors of nuclear weapons** **Y. Onanko (Institute of Water Problems and Land Reclamation NAAS), O. Dmytrenko, A. Onanko, T. Pinchuk-Rugal (Taras Shevchenko National University of Kyiv), A. Kuzmych (National University of Water and Environmental Engineering)*
12^{00}-12^{15}	*[GeoTerrace-2025-047]* ***Analysis of the stability of high-rise base points using the linear programming method*** **Y. Kovaliv, A. Tserklevych, P. Boretsky (Lviv Polytechnic National University)*
12^{15}-12^{30}	*[GeoTerrace-2025-036]* **Classifications of the Lakes of Western Polissya, Ukraine** *L. Ilyin, *O. Ilyina (Lesya Ukrainka Volyn National University)*
13^{00}-14^{00}	**Lunch break**

GIS Technologies for Decision-Making and Management *(Online Hall)* *Chair of Section: dr. Yu. Andreichuk* *Section Secretary: dr. Kh. Marusazh*	
14^{00}-14^{15}	*[GeoTerrace-2025-029]* **GIS Analysis of Spatial Discrepancies in Forest Type Mapping Based on Forest Management Materials (Zahatske Forestry, Zakarpattia)** *M. Karabiniuk, *V. Roman (Uzhhorod National University)*
14^{15}-14^{30}	*[GeoTerrace-2025-017]* **Application of the TIN Method for GIS-Based Modeling of Barium Concentrations in Surface Waters** **A. Klypa, Y. Karpinskyi, V. Onyshchuk (Kyiv National University of Construction and Architecture)*
14^{30}-14^{45}	*[GeoTerrace-2025-007]* **Spatial identification of farmland abandonment risk in a foothill landscape: the Vyhoda case study (Pre-Carpathians, Ukraine)** **Kh. Marusazh (Lviv Polytechnic National University)*
14^{45}-15^{00}	*[GeoTerrace-2025-059]* ***GIS approaches to evaluating renewable energy potential in the Ternopil and Ivano-Frankivsk territorial communities*** **M. Lopushanska (Professional Association of Environmentalists of the World (PAEW), L. Arkhypova (Ivano-Frankivsk National Technical University of Oil and Gas), I. Barna (Ternopil Volodmyr Hnatiuk National Pedagogical University), O. Savchenko (Lviv Polytechnic National University), O. Lopushanskyi (West Ukrainian National University)*
15^{00}-15^{15}	*[GeoTerrace-2025-050]* **Assessing the quality of open geospatial datasets on buildings and structures for geoinformation mapping** *D. Kin, N. Lazorenko, Y. Karpinskyi, A. Lyashchenko, *V. Bozhko (Kyiv National University of Construction and Architecture)*
15^{15}-15^{30}	**Coffee break**
15^{30}-15^{45}	*[GeoTerrace-2025-038]* **Mapping of solid waste pollution in Zakarpattia region** **V. Leta, N. Hertsovska, N. Pyatka (Mukachevo State University), M. Mykyta (Uzhhorod National University)*

15^{45}-16^{00}	*[GeoTerrace-2025-043]* **Geoinformation Mapping of Dangerous Burial of Animals that Died from Anthrax** **A. Moskalenko, T. Ievsiukov, K. Mykhailyk (National University of Life and Environmental Sciences of Ukraine)*
16^{00}-16^{15}	*[GeoTerrace-2025-095]* **Consideration of ecosystem services in the development of wind energy projects (based on the example of the Pidkamin territorial community in Lviv region)** **M. Lopushanska, L. Tsyganok (Professional Association of Environmentalists of the World (PAEW), Yu. Bashynska (Dolishniy Institute of Regional Research of NAS of Ukraine), N. Lemeha (Ivan Franko National University of Lviv), N. Revutska (NGO "Women's Energy Club of Ukraine")*
16^{15}-16^{30}	*[GeoTerrace-2025-084]* **Distribution of V. Boksha's Bioclimatic Index in Ukraine and the Development of an Automated Application for Its Determination** *M. Pavliuk (Volyn JAS Regional Department,) *V. Fedoniuk, N. Vavdiiuk (Lutsk National Technical University), Yu. Fedoniuk (Lesya Ukrainka Volyn National University)*
16^{30}-16^{45}	*[GeoTerrace-2025-031]* **Geospatial Mapping and Analysis of Landslide Occurrence within the Administrative Boundaries of Communities in Zakarpattia** *M.-M. Lendel, *I. Chepurnyi, T. Chepurna, Ya. Fedyk (Ivano-Frankivsk National Technical University of Oil and Gas)*
16^{45}-17^{00}	**Coffee break**
17^{00}-17^{15}	*[GeoTerrace-2025-049]* **The Relationship Between Urban Land-Use Planning and Real Estate Prices: A Statistical and Geoinformation Approach** *I. Koshkalda, *I. Sadovyy, O. Dombrovska (State Biotechnological University), V. Gurskienė (Vytautas Magnus University), R. Soshnikov (State Biotechnological University)*
17^{15}-17^{30}	*[GeoTerrace-2025-065]* **Spatial distribution and mapping of protected areas of Kyiv: a GIS-based database approach** **Y. Temchenko, Ye. Tsyhanok, S. Hlushchenko (Taras Shevchenko National University of Kyiv)*
17^{30}-17^{45}	*[GeoTerrace-2025-073]* **Principles for creating an intelligent expert system for real estate investment analysis based on machine learning and GIS** **O. Pomortseva (V.N. Karazin Kharkiv National University), S. Kobzan (O.M. Beketov National University of Urban Economy in Kharkiv), V. Pankiv (V.N. Karazin Kharkiv National University), D. Kin (Kyiv National University of Construction and Architecture)*
17^{45}-18^{00}	*[GeoTerrace-2025-018]* **Geoinformation analysis of peat fires in Lviv region** **Ye. Tykhanovych, V. Bilanyuk, S. Zyuzin, O. Zhuzhevych (Ivan Franko National University of Lviv)*
18^{00}-18^{15}	*[GeoTerrace-2025-037]* **Geoinformation Modelling and Mapping of Wind Resource Potential within the Rata River Basin** **N. Vano, O. Blazhivska, Yu. Andreichuk, L. Kurhanevych (Ivan Franko National University of Lviv)*
18^{15}-18^{30}	*[GeoTerrace-2025-057]* **Application of QGIS Technologies for Relief Modeling of the "Korolivski Beskydy" National Nature Park** **Y. Pylypiuk, V. Mokryy, I. Kazymyra (Lviv Polytechnic National University), I. Yazhevych, T. Zapadka (Pomeranian University)*

WENSDAY, OCTOBER 08, 2025

	Remote Sensing for Environmental Monitoring (Session 1) *(Online Hall)* *Chair of Section: dr. Kh. Marusazh* *Section Secretary: dr Ju. Denys*
09^{00}-09^{15}	*[GeoTerrace-2025-087]* **Remote sensing-based research of potential areas of wildfire hazard using Google Earth Engine** **D. Kin, N. Lazorenko (Kyiv National University of Construction and Architecture), O. Tomchenko (State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine"), Y. Karpinskyi (Kyiv National University of Construction and Architecture)*
09^{15}-09^{30}	*[GeoTerrace-2025-088]* **Predicting near-surface soil moisture from remote sensing indices using machine learning methods** **O. Piskunov, O. Tiapkin, A. Lozovyi (Dnipro University of Technology), O. Medvedieva (M.S. Poliakov Institute of Geotechnical Mechanics of NAS of Ukraine)*
09^{30}-09^{45}	*[GeoTerrace-2025-089]* **Monitoring of non-forest peat fires in the Lubny district of Poltava region using remote sensing methods** **D. Sopov, Yu. Tatarchuk (Odesa State Agrarian University), N. Sopova, D. Khainus (State Biotechnological University), N. Maslova (Volodymyr Vynnychenko Central Ukrainian State University)*
09^{45}-10^{00}	*[GeoTerrace-2025-091]* **The use of remote sensing data for the investigation of Etna volcanic activity and its impact on aviation from August 1 to 16, 2024** **G. Kalashnyk, M. Kalashnyk-Rybalko (Ukrainian State Flight Academy)*
10^{00}-10^{15}	*[GeoTerrace-2025-092]* **Regulation of land use and assessment of the quality status of water resources through the organization of geodetic monitoring** **S. Vynohradenko (State Biotechnological University) J. Valciukiene (Vytautas Magnus University), A. Riasnianska, O. Kniaz, D. Halkevych (State Biotechnological University)*

10^{15}-10^{30}	**Coffee break**
10^{30}-10^{45}	*[GeoTerrace-2025-099]* **Comparative analysis of geodetic methods for determining the area of forest plots** **I. Openko, Ya. Stepchuk, R. Tykhenko, O. Shevchenko, I. Zhyla (National University of Life and Environmental Sciences of Ukraine)*
10^{45}-11^{00}	*[GeoTerrace-2025-042]* **Post-Fire Monitoring of Forest Ecosystems Using Multi-Temporal Satellite Data and Spectral Indices** *D. Duisenova (S. Seifullin Kazak Agro-technical Research University), *N. Shogelova, (Kazakh Automobile and Road Institute named after L.B. Goncharov)*
11^{00}-11^{15}	*[GeoTerrace-2025-045]* **Advanced Measuring System for Atmospheric Electrostatic Field Monitoring in IoT-Based Environmental Application** **O. Pazdrii, O. Povshenko (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute")*
11^{15}-11^{30}	*[GeoTerrace-2025-048]* **Satellite-Based Assessment of War-Induced Changes in Ukrainian Wetlands of International Importance** *A. Kozlova, *A. Andreiev (Scientific Centre for Aerospace Research of the Earth of ehe Institute of Geological Sciences of the National Academy of Sciences of Ukraine), A. Davydova (M.G. Kholodny Institute of Botany of the National Academy of Sciences of Ukraine)*
11^{30}-11^{45}	*[GeoTerrace-2025-054]* **Remote sensing data for climate neutrality of urbogeosystems assessment using InVest model** **M. Kandii, V. Samoilenko (Taras Shevchenko National University of Kyiv)*
11^{45}-12^{00}	**Coffee break**
12^{00}-12^{15}	*[GeoTerrace-2025-058]* **Remote monitoring of moisture conditions in land reclamation systems (case of Kholonevychi drainage system)** **V. Fesyuk (Lesya Ukrainka Volyn National University) I. Moroz, M. Fedonyuk (Lutsk National Technical University), Y. Kyiko (Lesya Ukrainka Volyn National University)*
12^{15}-12^{30}	*[GeoTerrace-2025-068]* **Monitoring of forest sites by establishing marteloscopes** **V. Debryniuk, V. Lavnyy, A. Ivaniuk, R. Orikhovskyy (Ukrainian National Forestry University) P. Spathelf (Eberswalde University for Sustainable Development)*
12^{30}-12^{45}	*[GeoTerrace-2025-076]* **Analysis of reservoir water surface dynamics in the Donetsk region based on remote sensing data** **T. Malik, I. Tsiupa, O. Miloshkina, V. Kravchenia, O. Tsvyk (Taras Shevchenko National University of Kyiv)*
12^{45}-13^{00}	*[GeoTerrace-2025-077]* **Assessment of Landslide Susceptibility of Coastal Slopes in the Northwestern Black Sea Region Based on Morphometric and Spectral Indicators Derived from Remote Sensing Data** **A. Kuzmenko (Odesa National I. I. Mechnikov University)*
13^{00}-14^{00}	**Lunch break**

Geodetic and Satellite Technologies for Engineering and Deformation Monitoring *(Online Hall)* *Chair of Section: dr. B. Sossa* *Section Secretary: dr. V. Lozynskyi*	
14^{00}-14^{15}	*[GeoTerrace-2025-094]* **Investigating Systematic Errors in Geodetic Instruments: A Monte Carlo Simulation Approach** **B. Sossa (State University of Trade and Economics), V. Havryshchuk (State University of Trade and Economics)*
14^{15}-14^{30}	*[GeoTerrace-2025-021]* **Geodetic observation of deformation of an architectural monument in the city of Ivano-Frankivsk** **L. Dorosh, R. Oleskiv, M. Hrynishak, V. Mychailyshyn, O. Melnyk (Ivano-Frankivsk National Technical University of Oil and Gas)*
14^{30}-14^{45}	*[GeoTerrace-2025-001]* **Development of a method for monitoring the stability of base stations in GNSS networks** **O. Lano (Lviv Polytechnic National University)*
14^{45}-15^{00}	*[GeoTerrace-2025-079]* **Geodetic monitoring of the Chernobyl NPP shelter: research, analysis and forecast of structural stability** **D. Khainus (State Biotechnological University) D. Sopov (Odesa State Agrarian University,), N. Sopova (State Biotechnological University), A. Celms (Latvia University of Life Sciences and Technologies), V. Derevianko (State Biotechnological University)*
15^{00}-15^{15}	*[GeoTerrace-2025-093]* **Geodetic monitoring of building deformations during adjacent shelter construction: methods and case study** **I. Openko, O. Huretska, R. Tykhenko, O. Tykhenko (National University of Life and Environmental Sciences of Ukraine), P. Volk (National University of Water and Environmental Engineering)*
15^{15}-15^{30}	**Coffee break**
15^{30}-15^{45}	*[GeoTerrace-2025-011]* **The slope deformations monitoring in the conditions of dense urban development** *M. Yakovenko (The State Enterprise "The State Research Institute of Building Constructions"), O. Nesterenko (Kyiv National University of Construction and Architecture), V. Tytarenko, S. Kurash (The State Enterprise "The State Research Institute of Building Constructions"), *I. Kaliukh (Institute of Telecommunication and Global Information Space NASU)*
15^{45}-16^{00}	*[GeoTerrace-2025-003]* **Ranking the stability of the geological environment to engineering-geological processes within mining fields (on example of Western Donbass)** **S. Honcharenko (Kyiv Institute of Geological Sciences NAS of Ukraine)*

16^{00}-16^{15}	*[GeoTerrace-2025-012]* **Monitoring of cracks formation in the existing dense development due to the new construction influence** *M. Yakovenko (The State Enterprise "The State Research Institute of Building Constructions"), O. Nesterenko (Kyiv National University of Construction and Architecture), Y. Berchun, *I. Kaliukh (Institute of Telecommunication and Global Information Space NASU)*
16^{15}-16^{30}	*[GeoTerrace-2025-024]* **Application of terrestrial laser scanning in open pit mining conditions** *V. Kotenko, M. Skoryk (Zhytomyr Polytechnic State University), *L. Dorosh, V. Kovtun (Ivano-Frankivsk National Technical University of Oil and Gas)*
16^{30}-16^{45}	*[GeoTerrace-2025-039]* **Application of UAVs in Topographic Surveying of Highways** **V. Soroka, Y. Medvedskyi, A. Annenkov, R. Demianenko (Kyiv National University of Construction and Architecture)*
16^{45}-17^{00}	**Coffee break**
17^{00}-17^{15}	*[GeoTerrace-2025-053]* **Impact of Perspective Distortion on the Accuracy of Digital Level Measurements: Experimental and Modeling Insights** *O. Honcharenko, S. Bodnar, *M. Dubnytska, M. Molochko (Taras Shevchenko National University of Kyiv)*
17^{15}-17^{30}	*[GeoTerrace-2025-061]* **Lidar Scanning Data Processing Methodology for Creating Detailed Three-Dimensional Models of Transport Infrastructure Objects** **M. Kyryliuk (State Scientific Institution "Center for Problems of Marine Geology, Geoecology and Sedimentary Ore Formation of the NAS of Ukraine"), E. Bondarenko (Taras Shevchenko National University of Kyiv)*
17^{30}-17^{45}	*[GeoTerrace-2025-083]* **Grid Model Applications in Stress-Strain State Analysis of Metal Plate from Geodetic Monitoring** **O. Nepelyak, Ye. Ripetskyi, M. Prykhodko, E. Ilkiv, R. Ripetskyi (Ivano-Frankivsk National Technical University of Oil and Gas)*
17^{45}-18^{00}	*[GeoTerrace-2025-020]* **Geodetic Monitoring of Roof Deformations in Repurposed Structures: A Case Study from Rivne, Ukraine** **I. Savchyn, V. Lozynskyi, O. Romanyshyn, M. Malanchuk (Lviv Polytechnic National University)*
18^{00}-18^{15}	*[GeoTerrace-2025-100]* **Methodology for Monitoring the Stability of Height Reference Points for Observing the Settlement of Structures** **D. Zhytar (Ivano-Frankivsk National Technical University of Oil and Gas), E. Ilkiv (Ivano-Frankivsk National Technical University of Oil and Gas), I. Trevoho (Lviv Polytechnic National University), Ie. Lavrishko (Lviv Polytechnic National University), K. Smoliy (Ukrainian National Forestry University)*
18^{15}-18^{30}	*[GeoTerrace-2025-069]* **Application of laser scanning for modeling cultural heritage objects** *I. Kovalchuk, T. Ievsiukov, O. Kutsenko, *M. Kozhemiako (National University of Life and Environmental Sciences of Ukraine), P. Kozhemiako (Dnipro University of Technology)*
18^{30}-18^{45}	*[GeoTerrace-2025-030]* **Dynamic impact of military actions on slopes in densely built urban areas with low stability** **M. Yakovenko, E. Zorin, I. Ben (State Research Institute of Building Constructions), O. Nesterenko (Kyiv National University of Construction and Architecture)*

THURSDAY, OCTOBER 09, 2025

	Remote Sensing for Environmental Monitoring (Session 2) *(Online Hall)* *Chair of Section: dr. M. Nychyyd* *Section Secretary: dr. V. Lozynskyi*
09^{00}-09^{15}	*[GeoTerrace-2025-002]* **Monitoring Land Use and Land Cover with Sentinel-2 Data: A Case Study of Northern Ivano-Frankivsk Region, Ukraine (2017–2024)** **Kh. Marusazh, Yu. Petryk (Lviv Polytechnic National University)*
09^{15}-09^{30}	*[GeoTerrace-2025-010]* **Investigating the processes of deforestation and afforestation using remote sensing methods (case study of Kirovohrad region)** **Yu. Onoiko, M. Okhrimenko, Y. Silchenko (Volodymyr Vynnychenko Central Ukrainian State University)*
09^{30}-09^{45}	*[GeoTerrace-2025-041]* **The Influence of Surface Type on the Accuracy of Digital Terrain Models Derived from Airborne Laser Scanning Data (Using LiAir V70 as a Case Study)** **Y. Vash, M. Nychyyd, I. Kalynych, N. Kablak (Uzhhorod National University)*
09^{45}-10^{00}	*[GeoTerrace-2025-101]* **Features and significance of Rudolf Ritter von Otto's 1772 map of the march of Austrian troops** **B. Yavorskyy (Ivan Franko National University of Lviv), M. Bevz (Lublin University of Technology)*
10^{00}-10^{15}	*[GeoTerrace-2025-006]* **Using remote sensing to analyze environmental parameters of land plots affected by military operations** **P. Shostak, I. Stakhiv (Taras Shevchenko National University of Kyiv)*
10^{15}-10^{30}	**Coffee break**
10^{30}-10^{45}	*[GeoTerrace-2025-008]* **Study of changes in the quality of agricultural lands as a result of military actions** **K. Buhay, I. Stakhiv, V. Vorokh, R. Poralo (Taras Shevchenko National University of Kyiv), O. Nikolaienko (State University "Kyiv Aviation Institute")*
10^{45}-11^{00}	*[GeoTerrace-2025-025]* **Comparison of modern 3D modelling methods: the case study of the A. Sheptytskyi monument** *I. Zayats, *T. Voitekhin (Lviv Polytechnic National University)*

11^{00}-11^{15}	*[GeoTerrace-2025-023]* **Application of GIS for greenhouse gas emissions monitoring** **V. Skyba (Dmytro Motorny Tavria State Agrotechnological University), N. Vozniuk, O. Likho (National University of Water and Environmental Engineering), E. Aiubova (Dmytro Motorny Tavria State Agrotechnological University), S. Vozniuk (National University of Water and Environmental Engineering)*
11^{15}-11^{30}	*[GeoTerrace-2025-026]* **Land Quality Assessment with Feature Ranking of a Geospatial Datacube in Google Earth Engine: Case Study of Kryvyi Rih Region** **A. Andreiev (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine), A. Chakri (Cadi Ayyad University), J. C. A. Rodrigues (RCM2+, FE, Lusófona University), A. Kozlova (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine), S. Lyubchyk (RCM2+, FE, Lusófona University)*
11^{30}-11^{45}	*[GeoTerrace-2025-027]* **Comparative Analysis of Terrestrial and Mobile Laser Scanning Accuracy for Transport Infrastructure (Case Study of Railway Bridge on Brovarskyi Avenue, Kyiv)** **O. Shevchenko, D. Matviychuk, O. Pron, I. Openko, R. Tykhenko (National University of Life and Environmental Sciences of Ukraine)*
11^{45}-12^{00}	**Coffee break**
12^{00}-12^{15}	*[GeoTerrace-2025-028]* ***Remote Assessment of Wildfire Hazard: Case Studies in the Central Region of Portugal and Kryvyi Rih, Ukraine*** *A. Chakri (Cadi Ayyad University), J. C. A. Rodrigues (Lusófona University), *A. Andreiev, A. Kozlova (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine), S. Lyubchyk (Lusófona University)*
12^{15}-12^{30}	*[GeoTerrace-2025-074]* **Geoecological Monitoring of Hazardous Erosional-Denudational Zones in the Urban Environment of Kyiv** *L. Tustanovska, *D. Liashenko, (Taras Shevchenko National University of Kyiv) P. Trofymenko (T.H. Shevchenko National University «Chernihiv Colehium»), O. Tytarenko, S. Marhes (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Sciences of the National Academy of Sciences of Ukraine)*
12^{30}-12^{45}	*[GeoTerrace-2025-082]* **Monitoring Atmospheric Aerosol Pollution in Kyiv in 2024 under Natural and War-Related Impacts using Sentinel-5P and Public Sensor Networks** **Yu. Andrishko, K. Klymenko (National University of Kyiv-Mohyla Academy), N. Maidanovych (Leonid Pogorilyy UkrNDIPVT)*
12^{45}-13^{00}	*[GeoTerrace-2025-086]* **Spatiotemporal analysis of urban land use transformation in Ivano-Frankivsk using satellite imagery and GIS** *V. Nahirnyi, *L. Davybida (Ivano-Frankivsk National Technical University of Oil and Gas)*
13^{00}-14^{00}	**Lunch break**

War Damage Assessment and Post-War Reconstruction *(Online Hall)* *Chair of Section: dr. Yu. Petryk* *Section Secretary: M. Biala*	
14^{00}-14^{15}	*[GeoTerrace-2025-022]* **Analysis of Resilience of the Agrarian Sphere of the Kyiv Prydniprovia Region (economic and spatial method)** **O. Leiberiuk, A. Kushnir, A. Marushchynets, V. Shvaiko, (Institute of Geography National Academy of Sciences of Ukraine)*
14^{15}-14^{30}	*[GeoTerrace-2025-066]* **Assessing the potential of Populus species for post-war forest ecosystem recovery in Ukraine with GIS** *Ye. Shemet, A. Zarebina, *O. Kozak (National University of Kyiv-Mohyla Academy)*
14^{30}-14^{45}	*[GeoTerrace-2025-078]* **Analysis of the condition of agricultural lands damaged as a result of military actions using remote sensing methods** *T. Malik, *B. Tsibenko, I. Honchar, V. Kravchenia, O. Tsvyk (Taras Shevchenko National University of Kyiv)*
14^{45}-15^{00}	*[GeoTerrace-2025-016]* **Impact of war in Ukraine on changing the housing prices in the Visegrad countries** *K. Maciuk (AGH University of Krakow), M. Apollo (University of Silesia), C. Olexova (Bratislava University of Economics and Business), P. Remenyi (University of Pécs, HUN-REN CERS Institute for Regional Studies), *I. Brusak (Lviv Polytechnic National University)*
15^{00}-15^{15}	*[GeoTerrace-2025-075]* **Detecting war-induced abandoned cropland in Ukraine using remote sensing** **M. Zavodiana, Sh. Ibatullin, O. Sakal, R. Kharytonenko, R. Derkulskyi (Land Management Institute of National Academy of Agrarian Sciences of Ukraine)*
15^{15}-15^{30}	**Coffee break**
15^{30}-15^{45}	*[GeoTerrace-2025-015]* **Geoinformation Modeling for Land Plot Selection in Post-War Reconstruction: Challenges and Perspectives** **K. Mykhailyk, A. Moskalenko, B. Zaiachkivska (National University of Life and Environmental Sciences of Ukraine)*
15^{45}-16^{00}	*[GeoTerrace-2025-055]* **Preliminary geochemical research of the military helicopter crash site in Kharkiv region** **O. Bonchkovskyi (Institute of Geography, NAS of Ukraine), A. Pomazanna (Kharkiv School of Architecture), D. Hlavatskyi (Institute of Geophysics NAS of Ukraine), P. Ostapenko (NGO "Ukrainian Researchers Society"), M. Shevchenko (Kharkiv School of Architecture)*

16^{00}-16^{15}	*[GeoTerrace-2025-067]* **Monitoring of the condition of vegetation canopy using remote sensing data in the Kreminna forests national park** **T. Kupach (Taras Shevchenko National University of Kyiv, National University of Kyiv-Mohyla Academy), M. Shynkarov (Taras Shevchenko National University of Kyiv), O. Arion (Taras Shevchenko National University of Kyiv)*
16^{15}-16^{30}	*[GeoTerrace-2025-052]* **Walking hexapod for demining territory of postwar Ukraine. Algorithm for switching gait** *O. Sapehin, I. Platov, O. Pavlovskyi (Igor Sikorsky Kyiv Polytechnic Institute)*
16^{30}-16^{45}	**Coffee break**

Digital technologies for Agricultural and Spatial Territory Planning *(Online Hall)* *Chair of Section: dr. Yu. Petryk* *Section Secretary: M. Biala*	
16^{45}-17^{00}	*[GeoTerrace-2025-044]* **Automatization of land consolidation within the framework of the territorial community spatial planning** **O. Malashevska (National University of Life and Environmental Sciences of Ukraine), M. Malashevskyi, A. Tarnopolskyi, O. Kishchak, Ye. Tarnopolskyi (The National Academy of Agrarian Sciences of Ukraine)*
17^{00}-17^{15}	*[GeoTerrace-2025-081]* **Automated Reconstruction of Missing Geospatial Data at the Pre-Modeling Stage of Exogenous Geological Processes** **V. Hudak (Taras Shevchenko National University of Kyiv), T. Kril (Institute of Geological Sciences of the NAS of Ukraine)*
17^{15}-17^{30}	*[GeoTerrace-2025-090]* **Technologies of remote sensing and GIS in the task of agronomic field zoning** **A. Matiash, V. Zatserkovnyi, V. Voroh, T. Pastushenko (Taras Shevchenko National University of Kyiv), I. Tsyguliov (National University of Bioresources and Nature Management of Ukraine)*
17^{30}-17^{45}	*[GeoTerrace-2025-063]* **Spatial territory planning for the installation of wind power** *Yu. Hubar, *M. Svidrak (Lviv Polytechnic National University)*

17^{45}-18^{15}	**Summarizing the results of Conference** *(Online Hall)*