

EVENT PROGRAM

MONDAY, OCTOBER 04, 2021	
11 ⁰⁰ -11 ⁴⁰	Ceremonial opening <i>Online Hall</i>
11 ⁴⁰ -13 ⁰⁰	Plenary session <ul style="list-style-type: none"> [GeoTerrace-2021-038] Morphodynamics of the confluence of the Svicha and Sukil rivers *N. Rybak (Ivan Franko National University of Lviv), L. Dubis (Ivan Franko National University of Lviv, The John Paul II Catholic University of Lublin), A. Bubniak (Triosan Holding Energy), I. Bubniak (Lviv Polytechnic National University) [GeoTerrace-2021-030] An accuracy assessment of ALS-derived DTM and photogrammetric derived DSM: case study of Łysica massif M. Hajdukiewicz, *I. Romanyszyn (Kielce University of Technology) [GeoTerrace-2021-048] The use of GIS tools for data collection and processing in the context of fire risk assessment in urban cultural heritage *O. Tikhonova, X. Romão, G. Salazar (CONSTRUCT-LESE, Faculty of Engineering, University of Porto) [GeoTerrace-2021-013] On the impact of non-tidal atmospheric loading on the GNSS stations of regional networks and engineering facilities *I. Brusak, K. Tretyak (Lviv Polytechnic National University) <i>Online Hall</i>
13 ⁰⁰ -14 ⁰⁰	Lunch break
14 ⁰⁰ -15 ⁴⁰	Oral session - Earth Surface Processes & Geodynamics <i>Online Hall</i>
15 ⁴⁰ -16 ⁰⁰	Coffee break
16 ⁰⁰ -17 ⁰⁰	Oral session - Earth Surface Processes & Geodynamics <i>Online Hall</i>
17 ⁰⁰ -17 ²⁰	Discussions <i>Online Hall</i>
TUESDAY, OCTOBER 05, 2021	
09 ⁰⁰ -10 ⁴⁰	Oral session - Land Cover Mapping & UAV <i>Online Hall</i>
10 ⁴⁰ -11 ⁰⁰	Coffee break
11 ⁰⁰ -12 ⁴⁰	Oral session - Land Cover Mapping & UAV <i>Online Hall</i>
12 ⁴⁰ -13 ⁰⁰	Discussions <i>Online Hall</i>
13 ⁰⁰ -14 ⁰⁰	Lunch break
14 ⁰⁰ -15 ⁴⁰	Oral session - Engineering Surveying & Deformation Monitoring <i>Online Hall</i>
15 ⁴⁰ -16 ⁰⁰	Coffee break
16 ⁰⁰ -17 ²⁰	Oral session - Engineering Surveying & Deformation Monitoring <i>Online Hall</i>
17 ²⁰ -17 ⁴⁰	Discussions <i>Online Hall</i>
WEDNESDAY, OCTOBER 06, 2021	
09 ⁰⁰ -10 ⁴⁰	Oral session - Remote Sensing & GIS for Environmental Monitoring & Exploration <i>Online Hall</i>
10 ⁴⁰ -11 ⁰⁰	Coffee break
11 ⁰⁰ -13 ⁰⁰	Oral session - Remote Sensing & GIS for Environmental Monitoring & Exploration <i>Online Hall</i>
13 ⁰⁰ -14 ⁰⁰	Lunch break
14 ⁰⁰ -16 ²⁰	Oral session - Remote Sensing & GIS for Environmental Monitoring & Exploration <i>Online Hall</i>
16 ²⁰ -16 ⁴⁰	Discussions <i>Online Hall</i>
16 ⁴⁰ -17 ⁴⁰	Summarizing the results of Conference <i>Online Hall</i>

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 04, 2021 ([Online Hall](#))

Earth Surface Processes & Geodynamics <i>Chair of Section: dr. I. Savchyn</i>	
14 ⁰⁰ -14 ²⁰	[GeoTerrace-2021-014] Rapid daily processing of observation data at the Ukrainian permanent GNSS stations for monitoring of their stability <i>*O. Khoda, M. Ishchenko (Main Astronomical Observatory of the National Academy of Sciences of Ukraine)</i>
14 ²⁰ -14 ⁴⁰	[GeoTerrace-2021-037] Green construction in the conditions of the restraint urban development <i>*I. Kaliukh, Y. Ischenko, Y. Melashenko (The State Research Institute of Building Constructions)</i>
14 ⁴⁰ -15 ⁰⁰	[GeoTerrace-2021-041] Spatial heterogeneity of organic Carbon and moisture accumulation in the soil arable layer <i>*S. Kovalenko (NSC "Institute for Soil Science and Agrochemistry Research named after O.N. Sokolovsky")</i>
15 ⁰⁰ -15 ²⁰	[GeoTerrace-2021-046] Impact of low frequency dynamic loading on structural health of existing reinforced concrete railway retaining walls in the foothills of the Carpathians <i>*I. Kaliukh (The State Research Institute of Building Constructions), O. Lebid (Institute of Telecommunications and Global Information Space of NASU), O. Chala (Institute of Hydromechanics of NASU), A. Kryvoruchko (Zhytomyr Polytechnic State University), N. Zuievskva (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute")</i>
15 ²⁰ -15 ⁴⁰	[GeoTerrace-2021-044] 3D Visualization of Geological Layer - a case study of New South Wales, Australia and the Wadi Feiran Basin, Sinai <i>*N. Schuckert (Stuttgart University of Applied Sciences)</i>
15 ⁴⁰ -16 ⁰⁰	Coffee break
16 ⁰⁰ -16 ²⁰	[GeoTerrace-2021-012] Applying the statistical method of GNSS time series analysis for the detection of vertical displacements of Dnister HPP-1 dam <i>K. Tretyak, T. Korliatovych, *I. Brusak (Lviv Polytechnic National University)</i>
16 ²⁰ -16 ⁴⁰	[GeoTerrace-2021-025] Erosion processes of mountain tourist trails in the Chornohora massif (Ukrainian Carpathians) <i>*V. Brusak, V. Shtuhlynets (Ivan Franko National University of Lviv)</i>
16 ⁴⁰ -17 ⁰⁰	[GeoTerrace-2021-032] Processing and analysis of measurement results of the Ukrainian GNSS station ASAV (Argentina Islands, West Antarctica) <i>*I. Savchyn, K. Tretyak, K. Marusazh, T. Korliatovych (Lviv Polytechnic National University)</i>
17 ⁰⁰ -17 ²⁰	Discussions

TUESDAY, OCTOBER 05, 2021 ([Online Hall](#))

Land Cover Mapping & UAV <i>Chair of Section: dr. M. Yurkiv</i>	
09 ⁰⁰ -09 ²⁰	[GeoTerrace-2021-034] Geology interactive map of the crystalline basement of the western part of the Ukrainian Shield <i>*E. Moroz, L. Skakyn (Ivan Franko National University of Lviv)</i>
09 ²⁰ -09 ⁴⁰	[GeoTerrace-2021-001] Use of UAVs for land inventory <i>S. Khropot (Odessa State Academy of Building and Architecture), *V. Volkanova (LLC «ArchizemGeo»)</i>
09 ⁴⁰ -10 ⁰⁰	[GeoTerrace-2021-003] Approaches to web mapping of post-military facilities in Lviv region <i>S. Repekhovych, *R. Sossa (Lviv Polytechnic National University)</i>
10 ⁰⁰ -10 ²⁰	[GeoTerrace-2021-015] Web-mapping of the development of the Department of Photogrammetry and Geoinformatics of the Lviv Polytechnic National University <i>*N. Yarema, O. Kubrak (Lviv Polytechnic National University), K. Smoliy, R. Vanchura (West Ukrainian National University), V. Rachok, O. Popiuk (Lviv Polytechnic National University)</i>
10 ²⁰ -10 ⁴⁰	[GeoTerrace-2021-020] Web-mapping of graduates of the Institute of Geodesy of the Lviv Polytechnic National University (2019) <i>* N. Yarema, M. Prokhorenko, A. Sohor, O. Serant, D. Ivantsiv, O. Popiuk (Lviv Polytechnic National University)</i>
10 ⁴⁰ -11 ⁰⁰	Coffee break
11 ⁰⁰ -11 ²⁰	[GeoTerrace-2021-023] Web mapping of soil pollution in Lviv region <i>*A. Sohor, A. Brydun, M. Fys, M. Yurkiv, A. Buha (Lviv Polytechnic National University)</i>

11 ²⁰ -11 ⁴⁰	[GeoTerrace-2021-033] Web mapping of surface water quality in Lviv *A. Sohor, A. Brydun, M. Fys, N. Yarema, A. Trefler (Lviv Polytechnic National University)
11 ⁴⁰ -12 ⁰⁰	[GeoTerrace-2021-035] Web mapping of air pollution in Lviv *A. Sohor, A. Brydun, M. Fys, P. Zazuliak, M. Sohor (Lviv Polytechnic National University)
12 ⁰⁰ -12 ²⁰	[GeoTerrace-2021-042] Methods of creation an Atlas of National Parks and protected areas of Ukraine A. Kostyanchuk, *B. Chetverikov, I. Trevoho (Lviv Polytechnic National University)
12 ²⁰ -12 ⁴⁰	[GeoTerrace-2021-029] Echo-sounding of lakes of the Nobel national nature park for the purposes of landscape mapping and geocological monitoring I. Zubkovych (Nobel National Nature Park), I. Kovalchuk (National University of Life and Environmental Sciences of Ukraine), *V. Martyniuk (Rivne State University of Humanities), V. Korbutiak (National University of Water and Environmental Engineering), S. Andriychuk (Rivne State University of Humanities)
12 ⁴⁰ -13 ⁰⁰	Discussions
13 ⁰⁰ -14 ⁰⁰	Lunch break

Engineering Surveying & Deformation Monitoring

Chair of Section: dr. O. Zayats

14 ⁰⁰ -14 ²⁰	[GeoTerrace-2021-004] Analysis and comparison of static and RTK measurements: case study for GNSS network of the Dnister PSPP *A. Vivat, K. Tretyak, I. Savchyn, O. Lano, M. Navodych (Lviv Polytechnic National University)
14 ²⁰ -14 ⁴⁰	[GeoTerrace-2021-021] About research of building subsidence using sedimentary marks O. Serant, F. Zablotskyi, B. Dzhuman, A. Balian, N. Yarema, *B. Kladochnyi (Lviv Polytechnic National University)
14 ⁴⁰ -15 ⁰⁰	[GeoTerrace-2021-022] One method for solving ill-conditioned and degenerate systems of linear equations and its application for equalization a leveling network M. Fys, A. Balian, A. Brydun, *M. Yurkiv, V. Lozynskiy (Lviv Polytechnic National University)
15 ⁰⁰ -15 ²⁰	[GeoTerrace-2021-024] Considering the correlation of errors of the rectangular coordinates of polygon vertices while measuring an object area Y. Hubar, Y. Khavar, *O. Hulko, A. Marchenko (Lviv Polytechnic National University)
15 ²⁰ -15 ⁴⁰	[GeoTerrace-2021-026] The foundation subsidence of the tower-type structures *I. Trevoho (Lviv Polytechnic National University), E. Ilkiv, M. Halyarnyk (Ivano-Frankivsk National Technical University of Oil and Gas), O. Hrushko (Lviv Polytechnic National University)
15 ⁴⁰ -16 ⁰⁰	Coffee break
16 ⁰⁰ -16 ²⁰	[GeoTerrace-2021-028] The theoretical calculation of activity coefficients in the use of baromembrane methods for water treatment *M. Kravchenko, Y. Bereznytska, O. Hunchenko, L. Vasylenko, K. Haba (Kyiv National University of Construction and Architecture)
16 ²⁰ -16 ⁴⁰	[GeoTerrace-2021-031] Simplified method of obtaining data for calculating the volume of earthworks based on aerial survey materials from UAVs *A. Ostrovskiy, I. Kolb, A. Vivat, V. Lozynskiy, (Lviv Polytechnic National University), V. Zhyvchuk (Hetman Petro Sahaidachnyi National Army Academy)
16 ⁴⁰ -17 ⁰⁰	[GeoTerrace-2021-043] Methods to determine the area of the land plot physical surface Y. Hubar, *L. Vynarchyk, V. Sai, S. Bochkov (Lviv Polytechnic National University)
17 ⁰⁰ -17 ²⁰	[GeoTerrace-2021-008] Evaluation of changes in rock characteristics based on analysis and interpretation of seismica coustic observations in the area of the natural and technical system of Dnister PSPP *A. Zyhar (Yuriy Fedkovych Chernivtsi National University), I. Savchyn (Lviv Polytechnic National University), Yu. Yushchenko, O. Zakrevskiy (Yuriy Fedkovych Chernivtsi National University)
17 ²⁰ -17 ⁴⁰	Discussions

WEDNESDAY, OCTOBER 06, 2021 ([Online Hall](#))

Remote Sensing & GIS for Environmental Monitoring & Exploration

Chair of Section: dr. K. Marusazh

09 ⁰⁰ -09 ²⁰	[GeoTerrace-2021-002] Use of GIS technologies to determine the light of garden plants R. Rudyi, *Iu. Kyselov (Uman National University of Horticulture), O. Kravets (Ivano-Frankivsk National Technical University of Oil and Gas), P. Borovyk, M. Melnyk (Uman National University of Horticulture)
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09 ²⁰ -09 ⁴⁰	[GeoTerrace-2021-005] Classification of urban land coverage using satellite data and random forest classifier *A. Palamar (Kryvyi Rih National University) M. Malanchuk (Lviv Polytechnic National University), M. Hanchuk, L. Datsenko (Dmytro Motornyi Tavria State Agrotechnological University)
09 ⁴⁰ -10 ⁰⁰	[GeoTerrace-2021-006] Investigation of the influence of elements of internal orientation of digital cameras on the accuracy of determination of coordinates of locations M. Fys, V. Hlotov, *I. Petryshyn (Lviv Polytechnic National University)
10 ⁰⁰ -10 ²⁰	[GeoTerrace-2021-007] Mapping of the forest pathological processes in landscape complexes (on the example of the Rybnyk Maidanskyi river basin in Skole Beskids) O. Burianyk (Ivan Franko National University of Lviv), *M. Karabiniuk (Uzhhorod National University), Z. Gostiuk ("Hutsulshchyna" National Nature Park), Ya. Terletska (Ivan Franko National University of Lviv)
10 ²⁰ -10 ⁴⁰	[GeoTerrace-2021-009] Modeling of flooding of the nearshore area of part of the Dnister River using the HEC-RAS module *M. Halochkin, Kh. Burshtynska (Lviv Polytechnic National University)
10 ⁴⁰ -11 ⁰⁰	Coffee break
11 ⁰⁰ -11 ²⁰	[GeoTerrace-2021-010] Study of forest fires according to remote sensing data (on the example of the Chernobyl exclusion zone) A. Sevruk, *L. Babiy, A. Babushka, B. Chetverikov (Lviv Polytechnic National University)
11 ²⁰ -11 ⁴⁰	[GeoTerrace-2021-011] Study of changes of the city of Khyriv using archival cartographic data K. Zhuk, *L. Babiy (Lviv Polytechnic National University)
11 ⁴⁰ -12 ⁰⁰	[GeoTerrace-2021-017] Method for creating a basic model of the flooded zones of the Uzh river V. Rusyn, *M. Yurkiv (Lviv Polytechnic National University), Yu. Andreichuk (Ivan Franko Lviv National University)
12 ⁰⁰ -12 ²⁰	[GeoTerrace-2021-018] Content of heavy metals in sewage sludge at silt fields of Lviv waste water treatment plants *O. Shkvirko, I. Tymchuk, M. Malovanyy, (Lviv Polytechnic National University), O. Bota (Center LTD Consulting)
12 ²⁰ -12 ⁴⁰	[GeoTerrace-2021-019] The challenges of the provision of land consolidation with geospatial data *M. Malashevskiy, A. Tarnopolskyi (The National Academy of Agrarian Sciences of Ukraine), O. Malashevskya (National University of Life and Environmental Sciences of Ukraine), Y. Tarnopolskyi (Municipal enterprise "GostomelBudZamovnyk" of Gostomel town council)
12 ⁴⁰ -13 ⁰⁰	[GeoTerrace-2021-036] Scientific fundamentals of agricultural landscapes optimization and planning with the use of GIS technologies I. Trevoho (Lviv Polytechnic National University), *M. Prykhodko, E. Ilkiv, M. Halyarnyk, M. Yershov (Ivano-Frankivsk National Technical University of Oil and Gas)
13 ⁰⁰ -14 ⁰⁰	Lunch break

Remote Sensing & GIS for Environmental Monitoring & Exploration

Chair of Section: dr. K. Maruszah

14 ⁰⁰ -14 ²⁰	[GeoTerrace-2021-039] Spatial and temporal trend analysis of meteorological, hydrological and hydrogeological data (by the example of the San River basin) *L. Davybidia (Ivano-Frankivsk National Technical University of Oil and Gas), M. Worsa-Kozak, J. Górniak-Zimroz, A. Michalak (Wroclaw University of Science and Technology)
14 ²⁰ -14 ⁴⁰	[GeoTerrace-2021-040] The role of land management and cartographic works in the implementation of ecological certification of agricultural landscapes *L. Datsenko, M. Hanchuk, Yu. Chebanova, S. Kolomiets, I. Lezhenkin (Dmytro Motornyi Tavria State Agrotechnological University)
14 ⁴⁰ -15 ⁰⁰	[GeoTerrace-2021-045] Application of GIS technologies for assessment of anthropogenic changes in the basins of the main rivers of Ivano-Frankivsk region and ways to optimize the nature use I. Trevoho (Lviv Polytechnic National University), *M. Prykhodko, E. Ilkiv, M. Halyarnyk, M. Yershov (Ivano-Frankivsk National Technical University of Oil and Gas)
15 ⁰⁰ -15 ²⁰	[GeoTerrace-2021-047] Cultural routes in the historic city of Lisbon with uneven terrain using ArcGIS *I. Poloz (Universidade de Lisboa, Faculdade de Arquitetura, Centro de Investigação em Arquitetura, Urbanismo e Design)

15 ²⁰ -15 ⁴⁰	[GeoTerrace-2021-049] Using remote sensing for detecting bark beetle infestation on Volyn Polissya *A. Khyzhniak, 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")
15 ⁴⁰ -16 ⁰⁰	[GeoTerrace-2021-027] Assessment of the filling regime and variability of morphometric characteristics of ponds and reservoirs of small rivers of the steppe zone of Ukraine using data from remote sensing of the Earth (on the example of the Velykyi Kuyalnyk River) *O. Hryb, N. Loboda, Y. Yarov, T. Hrashchenkova (Odesa State Environmental University), O. Hryb (Odesa State Academy of Civil Engineering and Architecture)
16 ⁰⁰ -16 ²⁰	[GeoTerrace-2021-016] Retrospective monitoring of Municipal Solid Waste Landfill of Lutsk using remote sensing data A. 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), B. Zhdanyuk (Lesya Ukrainka Volyn National University), V. Fedoniuk (Lutsk National Technical University)
16 ²⁰ -16 ⁴⁰	Discussions
16 ⁴⁰ -17 ⁴⁰	Summarizing the results of Conference