

EVENT PROGRAM

MONDAY, DECEMBER 07, 2020	
11 ⁰⁰ -11 ³⁰	Ceremonial opening <i>Online Hall</i>
11 ³⁰ -13 ⁰⁰	Plenary session <ul style="list-style-type: none"> • Open Science for Ukraine: challenges and prospects <i>O. Berezko</i> • On the construction of vertical reference system of Ukraine <i>K. Tretyak, B. Dzhuman</i> • On GNSS activity at the Main Astronomical Observatory NASU <i>M. Ishchenko, O. Khoda</i> • Monitoring of recent local geodynamic activity in the Penola Strait-Lemaire Channel fault area (West Antarctica) <i>I. Savchyn</i> <i>Online Hall</i>
13 ⁰⁰ -14 ⁰⁰	Lunch break
14 ⁰⁰ -15 ³⁰	Oral session - Earth Surface Processes & Geodynamics <i>Online Hall</i>
15 ³⁰ -15 ⁵⁰	Coffee break
15 ⁵⁰ -17 ³⁰	Oral session - Earth Surface Processes & Geodynamics <i>Online Hall</i>
17 ³⁰ -18 ⁰⁰	Questions and discussions <i>Online Hall</i>

TUESDAY, DECEMBER 08, 2020	
09 ⁰⁰ -10 ³⁰	Oral session - Remote Sensing & GIS for Environmental Monitoring & Exploration <i>Online Hall</i>
10 ³⁰ -10 ⁵⁰	Coffee break
10 ⁵⁰ -12 ²⁰	Oral session - Remote Sensing & GIS for Environmental Monitoring & Exploration <i>Online Hall</i>
12 ²⁰ -13 ⁰⁰	Questions and discussions <i>Online Hall</i>
13 ⁰⁰ -14 ⁰⁰	Lunch break
14 ⁰⁰ -14 ⁵⁰	Oral session - Land Cover Mapping & UAV <i>Online Hall</i>
14 ⁵⁰ -15 ²⁰	Questions and discussions <i>Online Hall</i>
15 ²⁰ -15 ⁴⁰	Coffee break
15 ⁴⁰ -17 ³⁰	Oral session - Engineering Surveying & Deformation Monitoring <i>Online Hall</i>
17 ³⁰ -18 ⁰⁰	Questions and discussions <i>Online Hall</i>

WEDNESDAY, DECEMBER 09, 2020	
09 ⁰⁰ -09 ⁴⁰	Oral session - 3d Modeling & Visualization for Geology & Mining <i>Online Hall</i>
09 ⁴⁰ -10 ⁰⁰	Questions and discussions <i>Online Hall</i>
10 ⁰⁰ -10 ²⁰	Coffee break
10 ²⁰ -11 ⁴⁰	Oral session - Sectoral Cadastres for Environmental Management <i>Online Hall</i>
11 ⁴⁰ -12 ⁰⁰	Questions and discussions <i>Online Hall</i>
12 ⁰⁰ -12 ²⁰	Coffee break
12 ²⁰ -13 ⁰⁰	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, DECEMBER 07, 2020 (Online Hall)

Earth Surface Processes & Geodynamics	
Chair of Section: M. Ishchenko	
14 ⁰⁰ -14 ¹⁰	[GeoTerrace-2020-017] About the phenomenon on of subsidence in continental Europe in December 2019 based on the GNSS stations data *I. Brusak, K. Tretyak (Lviv Polytechnic National University)
14 ¹⁰ -14 ²⁰	[GeoTerrace-2020-042] A comparison of PLAXIS and LANDSLIP software packages for landslide hazard assessment *V. Shokarev, I. Syvko, E. Shokarev, O. Shokarev, D. Volkov, I. Kaliukh (The State Research Institute of Building Constructions)
14 ²⁰ -14 ³⁰	[GeoTerrace-2020-010] GPS/GIS system for updating capable faults in the Calabrian territory through the use of soft computing techniques *E. Bernardo, V. Barrile, A. Fotia (Mediterranea University of Reggio Calabria)
14 ³⁰ -14 ⁴⁰	[GeoTerrace-2020-057] Peculiarities of the method of calculation feature's geodetic area on the reference ellipsoid in GIS *D. Kin, Yu. Karpinskyi (Kyiv National University of Construction and Architecture)
14 ⁴⁰ -14 ⁵⁰	[GeoTerrace-2020-060] Research of the watercourse confluence based on RSD (by the example of the Sukil river) *N. Rybak (Ivan Franko National University of Lviv), L. Dubis (Ivan Franko National University of Lviv, The John Paul II Catholic University of Lublin), Yu. Andreychuk (Ivan Franko National University of Lviv)
14 ⁵⁰ -15 ⁰⁰	[GeoTerrace-2020-011] A GIS-based approach in the morphometric analysis of incised meanders on the Dnister River (Ukraine) *O. Tomeniuk, I. Sapsa (Ivan Franko National University of Lviv)
15 ⁰⁰ -15 ¹⁰	[GeoTerrace-2020-056] Using GIS in geoarchaeology of Podillya (Ukraine) A. Shevtsova (Ivan Franko National University of Lviv), *O. Tomeniuk (Ivan Franko National University of Lviv, Ivan Krypiakevych Institute of Ukrainian Studies of NAS of Ukraine)
15 ¹⁰ -15 ²⁰	[GeoTerrace-2020-053] Application of GIS for morphotectonic analysis (on the example of Kremenets Mountains) A. Bermes, *O. Tomeniuk (Ivan Franko National University of Lviv)
15 ²⁰ -15 ³⁰	[GeoTerrace-2020-054] GIS analysis of the hydrogeological conditions as the factor of the development and activation of landslide processes (by the example of Ivano-Frankivsk region) L. Davybida, *D. Kasiyanchuk, E. Kuzmenko, B. Karpinskyi (Ivano-Frankivsk National Technical University of Oil and Gas)
15 ³⁰ -15 ⁵⁰	Coffee break
15 ⁵⁰ -16 ⁰⁰	[GeoTerrace-2020-055] Spatial analysis of the relation between the distribution of dangerous exogenous geological processes and landscape hydrogeological complexes in Transcarpathian L. Davybida, *D. Kasiyanchuk, L. Shtogrin (Ivano-Frankivsk National Technical University of Oil and Gas)
16 ⁰⁰ -16 ¹⁰	[GeoTerrace-2020-004] About the need of modernization the Ukrainian height system *B. Dzhuman, F. Zablotskyi (Lviv Polytechnic National University)
16 ¹⁰ -16 ²⁰	[GeoTerrace-2020-028] Comparative analysis of crustal strain deformation obtained from GNSS data with geological measures *M. Ishchenko, (Main Astronomical Observatory of the National Academy of Sciences of Ukraine Kiev), M. Orlyuk (Institute of Geophysics of the National Academy of Sciences of Ukraine), Y. Velikodsky (National Aviation University)
16 ²⁰ -16 ³⁰	[GeoTerrace-2020-019] The transformation of the lithospheric figure caused by the evolutionary development of the Earth A. Tserklevych, *Y. Shylo, O. Shylo, (Lviv Polytechnic National University)
16 ³⁰ -16 ⁴⁰	[GeoTerrace-2020-038] Accuracy of formulas for calculating dynamic heights E. Novikova, *A. Palamar, I. Yeropunova (Kryvyi Rih National University)
16 ⁴⁰ -16 ⁵⁰	[GeoTerrace-2020-041] Construction and accuracy estimation of determining the Earth's geoid by its potential M. Fys, A. Brydun, A. Sohor, *M. Yurkiv, V. Lozynskyi (Lviv Polytechnic National University)

16 ⁵⁰ -17 ⁰⁰	[GeoTerrace-2020-007] Application of geopotential numbers to determine the heights of GNSS network reference stations <i>R. Pylypiuk, R. Pylypiuk, T. Hrytsiuk, *L. Dorosh, O. Hera (Ivano-Frankivsk National Technical University of Oil and Gas)</i>
17 ⁰⁰ -17 ¹⁰	[GeoTerrace-2020-061] An impact of dynamic loading on the slopes in the Carpathian region of Ukraine <i>V. Tytarenko, V. Shuminskiy, Ya. Dombrovskiy (The State Research Institute of Building Constructions), A. Sirenko (National Technical University of Ukraine "KPI n.a. Igor Sikorsky"), M. Yakovenko, *Iu. Kaliukh (The State Research Institute of Building Constructions)</i>
17 ¹⁰ -17 ²⁰	[GeoTerrace-2020-027] Complex investigations of the state, functioning and transformation processes development in the river basin systems <i>*A. Kovalchuk, I. Kovalchuk (National University of Life and Environmental Sciences of Ukraine), A. Mykhnovych, O. Pylypovych, (Ivan Franko National University of Lviv), B. Zhdaniuk, (Volynian Lesia Ukrainka National University)</i>
17 ²⁰ -17 ³⁰	[GeoTerrace-2020-031] On GNSS Activity at the Main Astronomical Observatory NASU <i>*M. Ishchenko, O. Khoda (Main Astronomical Observatory NAS of Ukraine)</i>
17 ³⁰ -18 ⁰⁰	Questions and discussions

TUESDAY, DECEMBER 08, 2020 (Online Hall)

Remote Sensing & GIS for Environmental Monitoring & Exploration <i>Chair of Section: B. Chetverikov</i>	
09 ⁰⁰ -09 ¹⁰	[GeoTerrace-2020-012] Landslide susceptibility mapping with fuzzy methodology <i>*E. Bernardo, V. Barrile, A. Fotia (Mediterranea University of Reggio Calabria), G. Bilotta (University of Architecture in Venice)</i>
09 ¹⁰ -09 ²⁰	[GeoTerrace-2020-001] Volume changes of glacier frontal parts on Galindez and Winter islands in 2013-2019 <i>*Kh. Marusazh (Lviv Polytechnic National University)</i>
09 ²⁰ -09 ³⁰	[GeoTerrace-2020-015] Application of Multi-Criteria Decision Making to create a map of suitability areas of city Lviv for selection of the location a residence <i>*A. Babushka, A. Romanovskyi (Lviv Polytechnic National University)</i>
09 ³⁰ -09 ⁴⁰	[GeoTerrace-2020-034] Development of GIS for estimation of investment attractiveness of territorial communities on the basis of availability of especially valuable soils <i>*P. Trofymenko, L. Umaeva, V. Zatserkovnyi, N. Trofimenko (Taras Shevchenko Kyiv National University), T. Kotkova, V. Mykytyuk (Polissya National University)</i>
09 ⁴⁰ -09 ⁵⁰	[GeoTerrace-2020-035] Development of GIS for assessment of soil potential of Polissya of Ukraine <i>*P. Trofymenko, V. Zatserkovnyi, V. Kartak N. Trofimenko (Taras Shevchenko Kyiv National University), I. Karas, F. Borysov (Polissya National University)</i>
09 ⁵⁰ -10 ⁰⁰	[GeoTerrace-2020-036] Development of GIS for assessment of ecological stability of land <i>V. Zatserkovnyi, *P. Trofymenko, A. Amelyanets, N. Trofimenko (Taras Shevchenko Kyiv National University), V. Mykytyuk, T. Kotkova (Polissya National University)</i>
10 ⁰⁰ -10 ¹⁰	[GeoTerrace-2020-046] Special features of automated decoding of farmland satellite images (on the example of Kipti territorial community) <i>*A. Skorobahatko, V. Zatserkovnyi (Taras Shevchenko Kyiv National University), O. Nikolaienko (National Aviation University), V. Babii, P. Trofymenko, N. Trofimenko (Taras Shevchenko Kyiv National University)</i>
10 ¹⁰ -10 ²⁰	[GeoTerrace-2020-050] Monitoring of coastal protective strips of the Velykyi Kuyalnyk River and recommendations for their state improvement in the future <i>N. Loboda, *O. Hryb, Ya. Yarov, V. Pylypiuk, A. Balan (Odessa State Environmental University)</i>
10 ²⁰ -10 ³⁰	[GeoTerrace-2020-052] The Status and Development Trends of Land Remote Sensing <i>*L. Ren, N. Lazorenko-Hevel (Kyiv National University of Construction and Architecture)</i>
10 ³⁰ -10 ⁵⁰	Coffee break
10 ⁵⁰ -11 ⁰⁰	[GeoTerrace-2020-026] The military geographical institute contribution in the Galicia mapping <i>*A. Hovadikova, R. Sossa (Lviv Polytechnic National University)</i>

11 ⁰⁰ -11 ¹⁰	[GeoTerrace-2020-063] Monitoring of mining branches according to satellite radar interferometry <i>M. Pakshyn, I. Liaska (Center for the reception and processing of special information and control of the navigation field), K. Burak, *L. Dorosh, M. Hrynishak (Ivano-Frankivsk National Technical University of Oil and Gas)</i>
11 ¹⁰ -11 ²⁰	[GeoTerrace-2020-037] Geoinformation support for monitoring the land use of the ecological network of regions <i>K. Mamonov (O. M. Beketov National University of Urban Economy in Kharkiv), *A. Palamar, (Kryvyi Rih National University) R. Viatkin, I. Kondratyuk (O.M. Beketov National University of Urban Economy in Kharkiv)</i>
11 ²⁰ -11 ³⁰	[GeoTerrace-2020-065] Determination of quantitative indicators of earthquake destruction by different time space images <i>*B. Chetverikov, I. Trevoho, L. Babiy, Kh. Marusazh (Lviv Polytechnic National University), R. Abdallah (Sulaimaniya Polytechnic University)</i>
11 ³⁰ -11 ⁴⁰	[GeoTerrace-2020-014] Monitoring of the condition of the accumulated sludge on the territory of Lviv wastewater treatment plants <i>*I. Tymchuk, M. Malovanyy, O. Shkvirko (Lviv Polytechnic National University), D. Vankovych, M. Odusha (Lviv City Utility Company "Lvivvodokanal"), O. Bota (Center LTD Consulting Lviv)</i>
11 ⁴⁰ -11 ⁵⁰	[GeoTerrace-2020-033] From the experience of using GIS technologies for studying tourist resources of national natural and regional landscape parks <i>*P. Shtoiko, *V. Khudoba, *P. Kucher, *V. Hrekh, *A. Kukhtiy (Ivan Boberskiy Lviv State University of Physical Culture)</i>
11 ⁵⁰ -12 ⁰⁰	[GeoTerrace-2020-009] Methodical aspects of geoinformation analysis of landscape differentiation of modern negative geological and geomorphological processes in natural territorial complexes of the highlands of Chornohora (Ukrainian Carpathians) <i>*M. Karabiniuk, Y. Markanych (Uzhhorod National University), O. Burianyk, I. Hnatiak (Ivan Franko National University of Lviv), Z. Gostiuk ("Hutsulshchynna" National Park)</i>
12 ⁰⁰ -12 ¹⁰	[GeoTerrace-2020-064] The recultivation of the agricultural land, that was deteriorated during hostilities in the east of Ukraine <i>*O. Chumachenko, E. Kryvoviaz, A. Koshel, O. Kustvska, A. Martyn (National University of Life and Environmental Science of Ukraine)</i>
12 ¹⁰ -12 ²⁰	[GeoTerrace-2020-044] Study of the method of spatial identification of polygonal features in the integration of geospatial datasets <i>*Y. Havryliuk, A. Lyashchenko (Kyiv National University of Construction and Architecture)</i>
12 ²⁰ -13 ⁰⁰	Questions and discussions
13 ⁰⁰ -14 ⁰⁰	Lunch break

Land Cover Mapping & UAV

Chair of Section: V. Lozynskiy

14 ⁰⁰ -14 ¹⁰	[GeoTerrace-2020-013] Innovative UAV methods for intelligent landslide monitoring <i>* E. Bernardo, V. Barrile, A. Fotia (Mediterranea University Reggio Calabria)</i>
14 ¹⁰ -14 ²⁰	[GeoTerrace-2020-058] Some aspects of the edge matching method of digital topographic maps in the scale of 1:50 000 for creation the main state topographic map <i>*N. Lazorenko-Hevel, D. Kin, Yu. Karpinskyi (Kyiv National University of Construction and Architecture)</i>
14 ²⁰ -14 ³⁰	[GeoTerrace-2020-022] Accuracy assessment of determining the volume of a body described by cartographic materials <i>V. Lozynskiy, *M. Yurkiv, M. Fys, (Lviv Polytechnic National University)</i>
14 ³⁰ -14 ⁴⁰	[GeoTerrace-2020-051] Interactive map of environmental pollution of the surface waters in Lviv region <i>A. Sohor, A. Brydun, N. Yarema, *V. Lozynskiy, M. Sohor (Lviv Polytechnic National University)</i>
14 ⁴⁰ -14 ⁵⁰	[GeoTerrace-2020-029] Web-mapping of prominent personalities of the institute of geodesy of Lviv Polytechnic National University <i>*R. Sossa, Y. Holubinka, A. Petrov, (Lviv Polytechnic National University)</i>
14 ⁵⁰ -15 ²⁰	Questions and discussions
15 ²⁰ -15 ⁴⁰	Coffee break

Engineering Surveying & Deformation Monitoring <i>Chair of Section: I. Savchyn</i>	
15 ⁴⁰ -15 ⁵⁰	[GeoTerrace-2020-002] Analysis and interpretations of recent local vertical movements of Dnister PSPP territory determined from precise levelling <i>*I. Savchyn (Lviv Polytechnic National University)</i>
15 ⁵⁰ -16 ⁰⁰	[GeoTerrace-2020-005] Geodetic monitoring of the hotel complex in the mountain region <i>*V. Romaniuk, D. Kukhtar, V. Mykhailyshyn, M. Hrynishak (Ivano-Frankivsk National Technical University of Oil and Gas)</i>
16 ⁰⁰ -16 ¹⁰	[GeoTerrace-2020-008] Layering of the ice caps on the islands Galindez, Winter, Skua (the Argentine Islands, West Antarctica) <i>*A. Chernov, Y. Otruba, D. Pishniak (National Antarctic Scientific Center of Ukraine), O. Bulakh, A. Ivko (Taras Shevchenko National University of Kyiv), Y. Brillinh (Subbotin Institute of Geophysics, NAS of Ukraine)</i>
16 ¹⁰ -16 ²⁰	[GeoTerrace-2020-023] The spatial determination of the point position by linear measurements <i>*A. Vivat, M. Fys, V. Litynskyi, T. Korlyatovych, I. Pokotylo (Lviv Polytechnic National University)</i>
16 ²⁰ -16 ³⁰	[GeoTerrace-2020-025] Research of motion fixing system based on micro electro mechanical systems <i>*A. Vivat, N. Nazarchuk, I. Brusak, O. Hrabovyi (Lviv Polytechnic National University)</i>
16 ³⁰ -16 ⁴⁰	[GeoTerrace-2020-043] Assessing land subsidence in Qazvin plain caused by groundwater level drop, using finite elements and finite difference methods <i>*Z. Yazdi, H. Niroumand (Buin Zahra University of Technology)</i>
16 ⁴⁰ -16 ⁵⁰	[GeoTerrace-2020-049] Integration of biophilic design into urban areas through green roofs <i>*H. Niroumand (IKIU), S. Borghei (Islamic Azad University), A. Burcu (Gazi University Ankara)</i>
16 ⁵⁰ -17 ⁰⁰	[GeoTerrace-2020-024] Non-simultaneous double-way trigonometric leveling <i>*R. Solskyi, S. Periy, V. Litynskyi (Lviv Polytechnic National University)</i>
17 ⁰⁰ -17 ¹⁰	[GeoTerrace-2020-030] Assessment of the engineering and geological conditions of the territory of the Church of St. Stanislaus in the city of Ternopil (Ukraine) using geophysical methods <i>E. Kuzmenko, *S. Bagriy, I. Chepurnyi (Ivano-Frankivsk National Technical University of Oil and Gas), O. Romanyuk, R. Kuderavets (Carpathian Branch of Subbotin Institute of Geophysics of the NAS of Ukraine)</i>
17 ¹⁰ -17 ²⁰	[GeoTerrace-2020-047] Geodetic monitoring of meter intervals of the Berezhan'y basis <i>I. Pokotylo, T. Korlyatovych (Lviv Polytechnic National University), P. Perii (National Army Academy Named after Hetman Petro Sagaidachnyi), V. Tarnavs'kyy, *A. Vovk (Lviv Polytechnic National University)</i>
17 ²⁰ -17 ³⁰	[GeoTerrace-2020-032] Latitude autonomous determination on fixed base with varied attitude <i>*O. Sapegin, S. Lakoza, V. Avrutov, D. Buhaiov (National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute")</i>
17 ³⁰ -18 ⁰⁰	Questions and discussions

WEDNESDAY, DECEMBER 09, 2020 (Online Hall)

3d Modeling & Visualization for Geology & Mining <i>Chair of Section: A. Zygar</i>	
09 ⁰⁰ -09 ¹⁰	[GeoTerrace-2020-020] Study of the process of changing of the bottom hole pressure in time under the conditions of gaslift flowing <i>*M. Mokliak (University of Miskolc), B. Mishchuk, A. Hrytsanchuk, M. Schepanskyi (Ivano-Frankivsk National Technical Oil and Gas University)</i>
09 ¹⁰ -09 ²⁰	[GeoTerrace-2020-062] Prospects of using passive seismic in the Novy Port oil and gas condensate field, Russia <i>*G. Kashin, V. Mironychev, O. Likhacheva (Udmurt State University)</i>
09 ²⁰ -09 ³⁰	[GeoTerrace-2020-021] Study of the process of changing of the effective gas factor in time under the conditions of gaslift flowing <i>*A. Lysenko (University of Miskolc), B. Mishchuk, L. Poberezhny, D. Volchenko, Y. Yakymchko, (Ivano-Frankivsk National Technical Oil and Gas University)</i>

09 ³⁰ -09 ⁴⁰	[GeoTerrace-2020-006] Using Move software by geological field works *M. Oliinyk, I. Bubniak (Lviv Polytechnic National University), Y. Vikhot (Lviv Polytechnic National University, Ivan Franko National University)
09 ⁴⁰ -10 ⁰⁰	Questions and discussions
10 ⁰⁰ -10 ²⁰	Coffee break

Sectoral Cadastres for Environmental Management <i>Chair of Section: M. Malanchuk</i>	
10 ²⁰ -10 ³⁰	[GeoTerrace-2020-003] Theory and practice of 3d cadastre development in Ukraine *M. Malanchuk, N. Muzyka, O. Yastrebkova (Lviv Polytechnic National University)
10 ³⁰ -10 ⁴⁰	[GeoTerrace-2020-016] Geophysical monitoring of geospatial data infrastructure as a component of the state environmental monitoring system I. Trevoho (Lviv Polytechnic National University), E. Ilkiv, M. Halyarnyk, *D. Kukhtar (Ivano-Frankivsk National Technical University of Oil and Gas)
10 ⁴⁰ -10 ⁵⁰	[GeoTerrace-2020-018] Assessment of gender equality in the professions of land surveyor, geodesist and land appraiser in Ukraine *Y. Moroz, A. Martyn, L. Hunko, (National University of Life and Environmental Sciences of Ukraine)
10 ⁵⁰ -11 ⁰⁰	[GeoTerrace-2020-039] The research of the impact of environmental factors on the use of underground real estate *K. Mamonov, S. Nesterenko, V. Frolov, V. Troyan (O. M. Beketov National University of Urban Economy in Kharkiv)
11 ⁰⁰ -11 ¹⁰	[GeoTerrace-2020-040] Assessment of the influence of environmental parameters on the economic efficiency of the territorial organization in agricultural enterprises N. Stupen (Lviv Polytechnic National University), *R. Stupen, Z. Ryzhok, O. Stupen, H. Dudych (Lviv National Agrarian University)
11 ¹⁰ -11 ²⁰	[GeoTerrace-2020-045] The main directions of cadastre development in Ukraine taking into account the experience of foreign countries N. Stupen, Y. Hubar, *O. Hulko, A. Vovk, M. Sobchuk (Lviv Polytechnic National University)
11 ²⁰ -11 ³⁰	[GeoTerrace-2020-048] Investigation of rented immovable real estate right Yu. Hubar, Yu. Khavar, V. Sai, *L. Vynarchyk, Kh. Ivakhniuk (Lviv Polytechnic National University)
11 ³⁰ -11 ⁴⁰	[GeoTerrace-2020-059] The national spatial data infrastructure as the basis for the State Land Cadastre L. Datsenko, S. Titova (Taras Shevchenko National University of Kyiv), *M. Dubnytska (Geonix Company LTD)
11 ⁴⁰ -12 ⁰⁰	Questions and discussions