



VYTAUTAS MAGNUS UNIVERSITY
Agriculture Academy
Faculty of Engineering
Department of Land Use Planning and Geomatics

20th International Scientific-Methodical Conference

BALTIC SURVEYING'23

10th-12th May 2023, Kaunas - Akademija, Lithuania

A place: Vytautas Magnus University, Agricultural Academy **IV building** (address: Universiteto str. 8A, Akademija town, LT-53341, Kaunas distr., Lithuania) **211 auditorium** and **Online**
A visit to Rumšiškės on Friday.

Conference link:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NWVjYmI1NjEtODA4ZC00NzEzLWJlYzYtNTk3YjI5ZDNkMjNh%40thread.v2/0?context=%7b%22Tid%22%3a%2210701389-4f5b-4078-baea-209e39c6210e%22%2c%22Oid%22%3a%22a777d021-c8bf-402e-9f12-bc8c72c3f12b%22%7d

Conference languages: English

in collaboration with: Latvia University of Life Sciences and Technologies, Latvia
University of Warmia and Mazury in Olsztyn, Poland



Latvia University
of Life Sciences
and Technologies



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AGENDA OF THE CONFERENCE

May 10, (Wednesday), IV building, 211 aud.

10⁰⁰ – 11⁰⁰ REGISTRATION OF PARTICIPANTS

11⁰⁰ – 11²⁰ CONFERENCE OPENING

PLENARY SESSION

Chairperson: assoc. prof., dr. Jolanta Valčiukienė

- 11²⁰ – 11⁴⁰ **Agricultural lands transformation and their use in land planning projects**
Koshkaldia Iryna¹, Sadovy Ivan¹, Dombrovskia Olena¹, Gurskiene Virginija²,
Maliene Vida², ¹State Biotechnological University, Ukraine, ²Vytautas Magnus
University, Lithuania
- 11⁴⁰ – 12⁰⁰ **Land Take in Estonia**
Jürgenson Evelin, Põdra Kätlin. Estonian University of Life Sciences, Estonia
- 12⁰⁰ – 12²⁰ **Application of surface models overcome crisis situations**
Celms Armands¹, Ratkevičs Aivars¹, Puķīte Vivita¹, Brinkmanis-Brimanis Miks¹,
¹Latvia University of Life Sciences and Technologies, ²Geo Jūrmala LTD, Latvia
- 12²⁰ – 12⁴⁰ Discussions
- 12⁴⁰ – 13⁰⁰ MAKING OF COMMON PHOTO.
- 13⁰⁰ – 14⁰⁰ LUNCH

ORAL SESSION 1

Chairpersons: prof., dr. Vivita Pukite

- 14⁰⁰ – 14¹⁵ **Legal and economic aspects of the real estate management of the state treasury agricultural property resource in Poland**
Kurowska Krystyna, Kryszk Hubert, University of Warmia and Mazury in Olsztyn,
Poland
- 14¹⁵ – 14³⁰ **Time series analysis of land cover and land use change of Kharkiv region of Ukraine**
Bogdanets Vyacheslav, Soboliev Mykyta, National University of Life and
Environmental Sciences of Ukraine, Ukraine
- 14³⁰ – 14⁴⁵ **Advantages of using QGIS to solve spatial planning tasks**
Hoptsi Dmytro, Siedov Arkadii, Anoprienko Tetiana, Khainus Dmytro, Yaremko
Denys, State Biotechnological University, Ukraine
- 14⁴⁵ – 15⁰⁰ **Assessment of 3D geoportals of cities according to selected elements of CityGML and INSPIRE standards**
Przemysław Leń¹, Klaudia Maciąg², Michał Maciąg² ¹University of Life Sciences in
Lublin ²Subcarpathian Bureau of Surveying and Agricultural Areas in Rzeszów, Poland
- 15⁰⁰ – 15¹⁵ **Determination of quasigeoid models in Riga city area using gnss/levelling method**
Lidumnieks Toms¹, Celms Armands¹, Ratkevičs Aivars¹, Puķīte Vivita¹, Brinkmanis-
Brimanis Miks^{1,2}, ¹Latvian University of Life Sciences and Tehnologies, ²Geo
Jūrmala LTD, Latvia
- 15¹⁵ – 15³⁰ **The structure of geodesic monitoring improvement by horizontal and vertical displacements**
Vynohradenko Serhii¹, Makieieva Liudmyla¹, Ryasnyanska Alona¹, Kriauciunaite-
Neklejonoviene Vilma², Balevicius Giedrius², ¹State Biotechnological University,
Ukraine, ²Vytautas Magnus University, Lithuania
- 15³⁰ – 15⁴⁵ DISCUSSION
- 15⁴⁵ – 16⁰⁰ COFFEE BRAKE
- 16⁰⁰ – 17⁰⁰ POSTER PRESENTATIONS - 1

18⁰⁰ – 20⁰⁰ CONFERENCE DINNER

May 11 (Thursday), IV building, 211 aud. and Online

ORAL SESSION 2

Chairperson: prof., dr. Krystyna Kurowska

- 9⁰⁰ – 9¹⁵ **Impact of climate changes on agricultural land use in Ukraine**
Oleksandr Shevchenko, National University of Life and Environmental Sciences of Ukraine
- 9¹⁵ – 9³⁰ **Protection of nature conservation lands in Ukraine**
Kupriianchuk Iryna, National University of Life and Environmental Sciences of Ukraine, Ukraine
- 9³⁰ – 9⁴⁵ **Effective use of degraded and unproductive agricultural land: planning aspect**
Suska Anastasiia¹, Shevchenko Serhii¹, Valčiukienė Jolanta², Juknelienė Daiva², Opashniuk Anna¹, ¹State Biotechnological University, Ukraine, ²Vytautas Magnus University, Lithuania
- 9⁴⁵ – 10⁰⁰ **Assessing the Impact of Wartime Conditions on the Land Surveying Industry in Ukraine: Adaptation, Challenges, and Recovery Strategies**
Martyn Andrii, Kolosa Liudmyla, National University of Life and Environmental Sciences of Ukraine, Ukraine
- 10⁰⁰ – 10¹⁵ **The potential of renewable energy on agricultural land**
Puziene Ruta^{1,2}, Anikienė Asta³, ¹Vilnius Gediminas Technical University, ²Vytautas Magnus University Agriculture Academy, ³Vilnius College of Technologies and Design, Lithuania
- 10¹⁵ – 10³⁰ **Farm holdings optimization**
Audrius Aleknavičius, Vytautas Magnus University, Lithuania
- 10³⁰ – 10⁴⁵ DISCUSSION
- 10⁴⁵ – 11⁰⁰ COFFEE BRAKE

ORAL SESSION 3

Chairperson: assoc. prof., dr. Jürgenson Evelin

- 11⁰⁰ – 11¹⁵ **Integration of the cadastral and remote-sensing data for the purposes of the land consolidation works difficulty assessment**
Przemysław Leń¹, Klaudia Maciąg², Michał Maciąg² ¹University of Life Sciences in Lublin ²Subcarpathian Bureau of Surveying and Agricultural Areas in Rzeszów, Poland
- 11¹⁵ – 11³⁰ **Land consolidation education – experience from Moldova**
Horjan Oleg, Technical University of Moldova, Moldova
- 11³⁰ – 11⁴⁵ **Impact of DAM removal on the socioeconomic values of areas surrounding pond**
Kasiulis Egidijus, Vytautas Magnus University, Lithuania
- 11⁴⁵ – 12⁰⁰ DISCUSSION

ORAL SESSION 4

Chairperson: dr. Audrius Aleknavičius

Section of the young scientists

- 12⁰⁰ – 12¹⁵ **Settlement of the Land Ownership in Slovakia**
Drdáková Kristína, Kysel' Peter, Slovak University of Technology in Bratislava, Slovakia
- 12¹⁵ – 12³⁰ **Assessment of the needs for land consolidation in Kaunas district, Lithuania**
Survila, Kasparas, Maliene, Vida, Vytautas Magnus University, Lithuania
- 12³⁰ – 12⁴⁵ **Problems of the formation and use of roads of local significance and their solution ways in the Šiauliai municipality**

Livanas Dovydas, Kriauciūnaitė - Neklejonovienė Vilma, Vytautas Magnus University, Lithuania

12⁴⁵ – 13⁰⁰ **Selection of cadastral area for land consolidation using multi-criteria analysis**

Karvelytė Toma, Pašakarnis Giedrius, Vytautas Magnus University, Lithuania

13⁰⁰ – 14⁰⁰ LUNCH

ORAL SESSION 5

IV building, 211 aud. and Online

Chairperson: assoc. prof., dr. Jolanta Valčiukienė

14⁰⁰ – 15³⁰ DISCUSSION ABOUT COMMON SCIENTIFIC RESEARCH AND STUDY PROGRAMS IMPROVEMENT

15³⁰ – 16⁰⁰ COFFEE BRAKE

16⁰⁰ – 17⁰⁰ POSTER PRESENTATIONS - 2

17⁰⁰ – 17³⁰ DISCUSSION

May 12 (Friday)

9⁰⁰ Departure to Rumšiškės, Kaišiadorys distr.

10⁰⁰ – 12³⁰ Excursion in Rumšiškės

13⁰⁰ – 14⁰⁰ LUNCH

15⁰⁰ Coming back to University, arrival of guests

16⁰⁰ – 17⁰⁰ POSTER PRESENTATIONS - 1

POSTER PRESENTATIONS - 1

May 10 (Wednesday), 16⁰⁰ – 17⁰⁰, IV building, 211 aud. and Online

Chairperson: assoc. prof. dr. Audrius Aleknavičius

Methodological basis of the development of the institutional environment of the land management system

Tretiak Anton, Hunko Liudmyla, Ivanna Hetmanchyk, Serhii Zamlynskyi, National University of Life and Environmental Sciences of Ukraine, Ukraine

Legal Support for Land Monitoring and Protection in Ukraine: Current Status and Development Prospects

Butenko Yevhen, Ischenko Nadiia, National University of Life and Environmental Sciences of Ukraine, Ukraine

Systematization of the problems of organic agriculture land use organization in Ukraine

Dorosh Olha¹, Dorosh Andriy², Sokhatska Maryna¹, ¹National University of Life and Environmental Sciences of Ukraine, ²Land Management Institute of NAAS of Ukraine, Ukraine

Peculiarities of consolidation of agricultural land massifs in Ukraine

Kustovska Oksana, National University of Life and Environmental Sciences of Ukraine, Ukraine

Analysis of the evolution of the general cadastre works in Romania

Madalina-Cristina Marian, Monica Angela Neblea, University of Pitesti, Romania

Trees and shrubs greenery area changes in Klaipeda county (2002-2022)

Įvavičiūtė Giedrė, Vytautas Magnus University, Kaunas Forestry and Environmental Engineering University of Applied Sciences, Klaipeda State University of Applied Sciences, Lithuania

Estimation of the forest growing potential of lands by soil indicators in the flat part of Ukraine

Raspopina Svitlana, Suska Anastasiia, Nazarenko Vitaly, Opashniuk Anna, State Biotechnological University, Ukraine

Review of the prospects of land degradation neutrality in Ukraine

Stoiko Nataliia, Onyskovets Vitalii, Lviv National Environmental University, Ukraine

The issue of increasing acidity of soils in Ukraine

Umanchyk Ivan, National University of Life and Environmental Sciences of Ukraine, Ukraine

The current state, problems and prospects of the use of land resources of Ukraine in conditions of war

Bavrovska Nataliia, National University of Life and Environmental Sciences of Ukraine, Ukraine

Prospective formation of the economic mechanism of nature management

Medynska Nataliia, National University of Life and Environmental Sciences of Ukraine, Ukraine

POSTER PRESENTATIONS - 2

May 11 (Thursday), 16⁰⁰ – 17⁰⁰, IV building, 211 aud. and Online

Chairperson: assoc. prof. dr. Audrius Aleknavičius

Measurement of the quality of public spaces using direct and remote methods

Kowalczyk Cezary¹, Kaźmierczak Rafał¹, Gurskienė Virginija², Mirzayev Natig³, ¹University of Warmia and Mazury in Olsztyn, Poland, ²Vytautas Magnus University, Lithuania, ³Lankaran State University, Azerbaijan

GIS tools for improving the quality of the social welfare management system

Żróbek-Róžańska Alina, Ogryzek Marek, University of Warmia and Mazury in Olsztyn, Poland

Application of GIS technology in the study and evaluation of agricultural land

Dauletkhanova Guldariya, Tairova Zhanerke, Nurpeissova Toleuzhan, Satbayev University, Kazakhstan

Application of geoinformation systems in land management and cadastre

Zhanat Amirzhanova, Korkyt Ata Kyzylorda University, Kazakhstan

The use of artificial intelligence in the management of the State treasury real estate in Poland

Kryszk Hubert, Kurowska Krystyna, University of Warmia and Mazury in Olsztyn, Poland

The role of spatial planning in the protection of agricultural and forestry land. Case study in Poland

Kurowska Krystyna, Kukolska Małgorzata, Jakubiak Marlena, University of Warmia and Mazury in Olsztyn, Poland

Research on the application of remote sensing technology in orchard assessment

Pukite Vivita, Celmina Vita, Luksa Jolanta, Celms Armands, Latvia University of Life Sciences and Technologies, Latvia

Territorial development planning in GIS environment

Celmina Vita, Pukite Vita, Latvia University of Life Sciences and Technologies, Latvia

State forest cadaster of the Republic of Lithuania analysis of data on land with self-growing trees

Abalikstiene Edita^{1,2}, Gudritiene Daiva^{1,2}, Salkauskiene Vilma¹, ¹Kaunas Forestry and Environmental Engineering University of Applied Sciences, ²Vytautas Magnus University, Lithuania

Changes in the registration of land use from the establishment of the real estate cadaster to the present

Matuk Olga¹, Jaworski Jacek², ¹Military University of Technology, ²Cardinal Stefan Wyszyński University, Poland

Features of creating an interactive mapping web application for the analysis of space images

Matviienko Oleksii, Kurach Tamara, Taras Shevchenko Kyiv National University, Ukraine

Scientific aspects of geospatial modeling in the process of mass land value assessment

Koshel Anton, Kolhanova Iryna, National University of Life and Environmental Sciences of Ukraine, Ukraine

Methodology of establishment the limit sizes of lot lands of the agricultural use

Zhildikbaeva Aizhan¹, Gurskiene Virginija², Yelemessov Serik¹, Ablaihan Baukhan¹, ¹Kazakh National Agrarian Research University, Kazakhstan, ²Vytautas Magnus University, Lithuania

The agrarian landscape and the change in its subdivision of plots

Karina Krasinskaitė, Jolanta Valčiukienė, Daiva Juknelienė, Vytautas Magnus University, Lithuania

Coordinators of the Conference

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