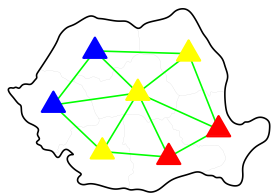




# SMART SURVEYING SOLUTIONS FOR SUSTAINABLE DEVELOPMENT

BRAȘOV, 15 - 19 Martie 2022



## Săptămâna Geodeziei Românești Romanian Surveying Week



Universitatea  
Transilvania  
din Brașov  
FACULTATEA DE SILVICULTURĂ  
ȘI EXPLOATĂRI FORESTIERE

## EVENT PROGRAMME



Academia de Stiinte  
Tehnice din Romania

Technical Sciences  
Academy of Romania



ANCPI  
AGENȚIA NAȚIONALĂ  
DE CADASTRU ȘI  
PUBLICITATE IMOBILIARĂ

It is our great pleasure to host the 2nd Romanian Surveying Week, the most important event of the Romanian surveying community in 2021. We welcome you to Braşov and the Transilvania University of Braşov, Faculty of Silviculture and Forest Engineering, an institution with tradition in providing education in the field of surveying engineering.

The event of this year is focused on “Smart surveying solutions for sustainable development”, a theme that is relevant and timely. In today's world, when our society has to face challenges such as climate change and economic turbulence due to the Covid19 pandemic, sustainable development is the key factor that decides the quality of living and the countries' competitiveness.

Regardless of your particular area of interest and scientific expertise, we hope that our international event will encourage you to explore and expand your interest in a broad array of current topics in surveying engineering, strengthen ties with peers and friends, and develop new relationships and collaborative research projects.

I wish you a successful conference and a pleasant time in Braşov!



Prof. Dr. Eng. Alexandru-Lucian Curtu  
Dean, Faculty of Silviculture and Forest Engineering – Transilvania University of Braşov

For the geodesy in Romania, the successor of the oldest engineering profession - border engineers, certified since 1818, the appearance in 2019, in addition to the university scientific events, of the “ROMANIAN SURVEYING WEEK” was the biggest and most important event for geodesy, geoinformation and land management.

“Smart surveying solutions for sustainable development”: this theme is the expression of one of the important concerns, not only for the field of geodesy, for the coming years.

Technological progress plays a central role in achieving this goal. In terms of sensors and measurement technology, there are significant developments in the area of precise positioning and faster acquisition of ever-increasing data sets. In addition to drones, robotic processes are becoming increasingly important. Artificial intelligence and machine learning are increasingly used in assessment and analysis. In the field of digital models, BIM has a remarkable position.

We hope that at ROMANIAN SURVEYING WEEK 2022, hosted this year by Transilvania University from Braşov, at the Faculty of Forestry and Forestry Engineering, these topics will be present and intensely discussed from the perspective of geodesy, geoinformation and land management in technical sessions, professional topics and exhibitions.

The organizing committee has done everything to be ready to provide you with an attractive visit to Brasov, Transylvania, in the heart of Romania!



Prof. Dr. Eng. Petre Iuliu Dragomir  
Interim President of  
Romanian Surveyors Union

As our professional union promised, the most important event of our professional guild continues with the second edition that will take place in the center of the country in Braşov. Because the first ideas on sustainable development appeared in the forestry field, we consider that the location chosen for this year's event, in an area surrounded by the richest forests of the country and hosted by an university with a tradition in the field can only be a good premise regarding the success of the event.

We see every day the importance of our profession whose applications are found into a multitude of areas essential for the economic development of the country and aware of this we intend to debate and propose solutions to the encountered problems meet by professionals in their daily activity. We also hope that the three sections of scientific communications will provide the opportunity for the participants to present their research and achievements, thus contributing to the professional development of those who work in the field and who have the opportunity to publish their presentations in English, full - paper, after peer-review evaluation, as research article or short communication in Bulletin of Transilvania University (indexed in prestigious international data bases).

We believe that this event will bring together specialists in the field of geodesy and those who use the products of our work, regardless of how or where they practice their profession and we invite you to actively participate for a few days in this special moment in our union's life that will include technical sessions, debates on professional subjects and technical exhibitions.



Assoc. Prof. Ph.D. Eng. Constantin Irinel Greşiță  
Executive Director of SGR 2021, Faculty  
of Silviculture and Forest Engineering –  
Transilvania University of Braşov



**Tuesday, 15 March, 2022**

Time	Event	Place
15:00 → 19:00	Participants registration	Aula
15:00	Optional city tour	
19:00 → 21:00	Welcome Cocktail	“Sergiu T. Chiriacescu” Aula



**Wednesday, 16 March, 2022**

**“Sergiu T. Chiriacescu” Aula**

Time	Event and Chair/Keynote Speaker (KS)	Place
08:00 → 17:00	Participants registration	Foyer
09:00 → 10:30	<b>Opening Ceremony &amp; Welcome Speeches</b>	<b>Plenary Session Hall</b>
	<p><b>Chair</b> – Prof.Dr.Eng. <b>Alexandru Lucian CURTU</b>, Dean of the Faculty of Silviculture and Forest Engineering</p> <p><b>Keynote Speakers:</b></p> <ul style="list-style-type: none"> <li>➤ <b>Jur. Ildiko RAKOSI-SEIWARH</b>, Director of National Agency for Cadastre and Land Registration (ANCPI)</li> <li>➤ <b>Local authorities representatives</b></li> <li>➤ <b>George MIERLIȚĂ</b>, General Director of National Forest Administration (RNP-Romsilva)</li> <li>➤ <b>Dr. Șerban Octavian DAVIDESCU</b>, General Director of National Institute for Research and Development in Forestry “Marin Drăcea”</li> <li>➤ <b>Dr. Eng. Kwame TENADU</b>, FIG Vice-President (online)</li> <li>➤ <b>Prof.Habil.Dr.Eng. Mihail MINESCU</b>, Vice-President of Section X -Petroleum, Mining Engineering and Geonomy of Romanian Academy of Technical Sciences</li> <li>➤ <b>Prof.Dr.Eng. Petre Iuliu DRAGOMIR</b>, Interim President of Romanian Surveyor Union</li> </ul>	
10:30 → 11:00	<b>Starting Exhibition</b>	Ground Floor Hall
	<ul style="list-style-type: none"> <li>➤ <b>Dr.Eng. Valeriu MANOLACHE</b>, President of Romanian Association of Private Surveyors</li> <li>➤ <b>Assoc.Prof.Dr.Eng. Constantin Irinel GREȘIȚĂ</b>, Transilvania University of Brașov, Romania</li> </ul>	
11:00 → 11:30	<b>Coffee break</b>	

Time	Event and Chair/Keynote Speaker (KS)	Place
11:30 → 13:00	<b>Sustainable development – Plenary session</b>	<b>Plenary Session Hall</b>
	<p><b>Chair</b> – Prof.Habil.PhD. Eng. <b>Ana-Cornelia BADEA</b> Technical University of Civil Engineering, Bucharest</p> <p><b>Keynote Speakers:</b></p> <ul style="list-style-type: none"> <li>➤ <b>Dr. Kwame TENADU</b>, FIG Vice President: Responding to international networking and cooperation in the new reality</li> <li>➤ <b>Dr. Orhan ERCAN</b>, Former FIG Vice President: Sustainable Development Goals and Turkey Practice on Goal 15</li> <li>➤ <b>Prof.Dr Chryssy POTSIU</b>, Honorary FIG President: Surveyors’ role in the recovery action plan for urban settlements in the post-covid 19 era</li> <li>➤ <b>Maurice BARBIERI</b>, former CLGE President: GISCAD-OV, a step forward for E-GNSS applied to Property Surveying.</li> </ul>	
13:00 → 14:00	<b>LUNCH</b>	<b>Aula Hall</b>
14:00 → 15:00	<b>The long way of the given promise on the Profession Regulation Law – Round Table</b>	<b>Plenary Session Hall</b>
	<p><b>Chair</b> – Eng. <b>Ionuț Cristian SĂVOIU</b>, former president of Romanian Surveyor Union</p> <p><b>Keynote Speakers:</b></p> <ul style="list-style-type: none"> <li>➤ <b>Gheorghe IALOMIȚIANU</b>, President of UPLR</li> <li>➤ <b>ANCPI representative</b></li> <li>➤ <b>Maurice BARBIERI</b>, former CLGE president</li> <li>➤ <b>Eng. Aliona GRĂDINARU</b>, President of UGR Constanța</li> <li>➤ <b>Dr.Eng. Valeriu MANOLACHE</b>, President of Romanian Association of Private Surveyors</li> <li>➤ <b>Prof.Dr. Alexandru Lucian CURTU</b>, Dean of the Faculty of Silviculture and Forest Engineering</li> <li>➤ <b>Prof.Dr.Eng. Petre Iuliu DRAGOMIR</b>, Interim President of Romanian Surveyors Union</li> <li>➤ <b>Dr. Orhan ERCAN</b>, Former FIG Vice President</li> </ul>	
15:00 → 15:30	<b>Coffee break</b>	
15:30 → 18:00	<b>Cadastre and land registration from PNCCF to POR. 2023 at the horizon! – Round Table</b>	<b>Plenary Session Hall</b>
	<p><b>Chair</b> – Prof.Dr.Eng. <b>Cornel PĂUNESCU</b>, Honorary President of Romanian Surveyors Union</p> <p><b>Keynote Speakers:</b></p> <ul style="list-style-type: none"> <li>➤ <b>Victor Adrian GRIGORESCU</b>, ANCPI – Director Land Registration</li> <li>➤ <b>Mihai IANCIU</b>, S.C. Geomatics S.R.L.</li> <li>➤ <b>Irinel GREȘIȚĂ</b>, S.C. Toposurvey S.R.L.</li> <li>➤ <b>Mircea STOIAN</b>, S.C. Gauss S.R.L.</li> <li>➤ <b>Cosmin DRAGOMIR</b>, S.C. Komora Engineering S.R.L.</li> </ul>	
19.00	<b>Gala dinner</b>	<b>ARO PALACE HOTEL</b>



Thursday, 17 March, 2022

“Sergiu T. Chiriacescu” Aula

Time	Event and Chair/Keynote Speaker (KS)	Place
08:00 → 17:00	Participants registration	Foyer
09:00 → 10:30	<b>Universitaria Round Table - Plenary session</b>	<b>Plenary Session Hall</b>
	<p><b>Chair</b> – Prof.Habil.Dr.Eng. <b>Ana-Cornelia BADEA</b>, Technical University of Civil Engineering, Bucharest</p> <p><b>Keynote Speakers:</b></p> <ul style="list-style-type: none"> <li>➤ Prof.Dr.Eng.<b>Tudor SĂLĂGEAN</b></li> <li>➤ Assoc.Prof.Dr.Eng. <b>Irinel GREȘIȚĂ</b></li> <li>➤ Assoc.Prof.Dr.Eng. <b>Sanda NAȘ</b></li> <li>➤ Assoc.Prof.Dr.Eng. <b>Constantin CHIRILĂ</b></li> <li>➤ Assoc.Prof.Dr.Eng. <b>Norbert-Szabolcs ȘUBA</b></li> <li>➤ Assoc.Prof.Dr.Eng. <b>Mihai HERBEI</b></li> </ul>	
10:30 → 11:00	<b>Coffee break</b>	
11:00 → 13:00	<b>Sponsors presentations - Plenary session</b>	<b>Plenary Session Hall</b>
	<p><b>Chair</b> – <b>George DAMIAN</b>, General Manager Top Geocart</p> <ul style="list-style-type: none"> <li>➤ S.C. Heveco S.R.L. Ploiesti – Costin TRANDAFIR</li> <li>➤ S.C. Corne&amp;Cornel Topoexim S.R.L. Bucuresti – Anca PĂVĂLOIU</li> <li>➤ S.C. Geodata Services București – Florin NACHE</li> <li>➤ S.C. Gauss S.R.L. Timisoara - Mircea STOIAN</li> <li>➤ S.C. Topgeocart S.R.L. București – George DAMIAN</li> <li>➤ S.C. Total Business Land S.R.L. Alba-Iulia – Teodora CIUREA</li> </ul>	
13:00 → 14:00	<b>LUNCH</b>	<b>Aula Ground Floor Hall</b>
14:00 → 15:30	<b>Technical Session 1</b>	<b>Transilvania Hall</b>
	<p><b>Chair</b> – Dr.Eng. <b>Vlad PĂUNESCU</b> - Romanian Association of Surveyors, Romania</p> <p><b>Rapporteur</b> – Assoc.Prof.Dr.Eng. <b>Adrian SAVU</b> – Technical University of Civil Engineering București, Romania</p> <ol style="list-style-type: none"> <li>1. <b>Pietro GRIMALDI</b>: <i>International Training Summer School - Survey for Planning: New Technology and Land Protection</i></li> <li>2. <b>Iaroslav ZIFCEAC, Cornel PĂUNESCU, Manuel VAIS</b>: <i>The impact of the green spaces on the lans surface temperature in urban areas – analysis of the land surface temperature in the city of Oradea using Landsat 8 satellite images</i></li> <li>3. <b>Maximilian DIAC, Loredana CRENGĂNIȘ, Isabela BĂLAN</b>: <i>Influence of digital terrain models in modeling risk maps on landslides</i></li> </ol>	

Time	Event and Chair/Keynote Speaker (KS)	Place
14:00 → 15:30	<b>Technical Session 2</b>	<b>Plenary Session Hall</b>
	<p><b>Chair</b> – Prof.Dr.Eng. <b>Tudor SĂLĂGEAN</b> – University of Agricultural Science and Veterinary Medicine Cluj Napoca, Romania</p> <p><b>Rapporteur</b> – Dr.Eng. <b>Anca Maria MOSCOVICI</b>, „Politehnica” University of Timișoara, Romania</p> <ol style="list-style-type: none"> <li>1. <b>Cornel PĂUNESCU, Valentin MIHALCEA, Vlad PĂUNESCU</b>: <i>Are the new technologies really new?</i></li> <li>2. <b>Ioan VOINA, Maricel PALAMARIU, Mihai HERBEI</b>: <i>Trends and intelligent technologies used in modern topography</i></li> <li>3. <b>Aurel SĂRĂCIN</b>: <i>GPR technique and data for achievement 4D cadaster</i></li> <li>4. <b>Ionuț MAICAN, Irinel Constantin GREȘIȚĂ, Cristian FLORESCU</b>: <i>Short classification of topography intervention in archeological research</i></li> <li>5. <b>Gheorghe-Marian TUDORAN</b>: <i>Using mathematical models based on Unmanned Aerial Vehicle optical imagery to estimate tree characteristics</i></li> </ol>	
14:00 → 15:30	<b>Technical Session 3</b>	<b>Brasov Hall</b>
	<p><b>Chair</b> – Prof.Dr.Eng. <b>Iosif VOROVENCII</b>, Transilvania University of Brașov</p> <p><b>Rapporteur</b> – Lect.Dr.Eng. <b>Loredana CRENGANIȘ</b>, „Gheorghe Asachi” Technical University of Iași, Romania</p> <ol style="list-style-type: none"> <li>1. Dr.Eng. <b>Ileana SPIROIU</b>: <i>Asigurarea suportului cartografic de evaluare a terenurilor pentru introducerea cadstrului economic pe teritoriul României</i></li> <li>2. <b>Adrian PÂRVU, Iuliana PÂRVU, Iuliana CUIBAC, Nicoleta PÂRVULESCU, Margarita DOGARU</b>: <i>Actualizarea modelului digital al terenului pe întregul teritoriu al României utilizând surse multiple</i></li> <li>3. <b>Miluță FLUERAS</b>: <i>ROMPOS – Dezvoltări recente și perspective</i></li> <li>4. <b>Anca ȘTEFĂNESCU</b>: <i>Expertiză tehnică judiciară în specialitatea topografie geodezie și cadastru într-un litigiu ce urmărește rectificarea cărții funciare a unui imobil</i></li> <li>5. <b>Cornel PĂUNESCU, Valentin MIHALCEA, Vlad PĂUNESCU</b>:</li> </ol>	



Time	Event and Chair/Keynote Speaker (KS)	Place
	<i>Comparative study on static versus real-time GNSS measurements and altitude differences between GNSS determinations and high-precision leveling</i>	
15:30 → 16:00	<b>Coffee break</b>	
16:00 → 18:00	<b>UGR National Council</b> <b>Chair</b> – Prof.Dr.Eng. <b>Petre Iuliu DRAGOMIR</b> , Interim President of Romanian Surveyors Union	<b>Plenary Session Hall</b>
19.00	<b>TRANSILVANIA DINNER</b>	<b>Coliba Haiducilor- Poiana Braşov</b>



**Friday, 18 March, 2022**

**“Sergiu T. Chiriacescu” Aula**

Time	Event and Chair/Keynote Speaker (KS)	Place
09:00 → 10:30	<b>Mentoring shape your future positively – Young Surveyors - Plenary session</b> <b>Chair</b> – Eng. <b>Anca PĂVĂLOIU</b> , Young Surveyors Commission Romania <ul style="list-style-type: none"> <li>➤ Dr. <b>Kwabena Obeng ASIAMA</b>, Chair of Young Surveyors Network</li> <li>➤ <b>Ferah Pirlanta KÖKSAL</b>, Vice Chair of Young Surveyors Network</li> <li>➤ Dr.Eng. <b>Cemal Özgür KIVILCIM</b>, Chief Engineer at Istanbul Metropolitan Municipality</li> <li>➤ <b>Andrei SUERAN</b>, Managing Partner at Graphein</li> <li>➤ DR.Eng. <b>Mihnea Mircea MITRACHE</b>, Vice-President UGR Dolj</li> </ul>	<b>Plenary Session Hall</b>
10:30 → 11:00	<b>Closing Ceremony</b>	<b>Plenary Session Hall</b>
11:00 → 12:00	<b>Lunch</b>	<b>Aula Ground Floor Hall</b>
11:00 → 13:30	<b>Digital Innovation Hub – WALLACHIA eHUB</b> <b>Chair</b> – Prof.Dr. <b>Costin LIANU</b> , General Director USH Pro Business <b>Keynote Speakers:</b> <ul style="list-style-type: none"> <li>➤ <b>Ionuț Cristian SĂVOIU</b>, State Secretary Minister – Transport Ministry Representative Economy Ministry/Digitalization Agency</li> <li>➤ Prof.Dr. <b>Irina RĂDULESCU</b>, coordinator Wallachia eHub – eDIHuri financing</li> <li>➤ <b>Costin TRANDAFIR</b>, President Danube Engineering Hub</li> </ul>	<b>Plenary Session Hall</b>

- **Alina Nicoleta POPESCU**, Technical Director HEVECO
- **Florin SIMIONESCU**, General Director Integrisoft
- **Valentin MITRICĂ**, Precedent Cluster Bio Oltenia
- **Flavio FINTA**, coordinator of action group Wallachian Heritage, restorer expert
- **Ovidiu BADEA**, General Director INCDS
- **Christina LEUCUTA**, Senior Consultant at CLUSTERO – Clusters Association from Romania
- **Rodica LUPU**, Cluster Director TEC



**Saturday, March 19, 2022**

**Post Symposium Trip – Optional**

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Dr.Eng. Vlad PĂUNESCU - Romanian Association of Surveyors, Romania

Eng. Mihnea MITRACHE- Vicepresident Romanian Surveyors Union Dolj

#### Transilvania University of Braşov

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Assoc.Prof. Dr. Eng. Cornel Cristian Tereşneu

Lect.Dr.Eng. Mihnea Căţeanu

Dr.Eng. Ionuț Maican

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Prof.Dr.Eng. Cosmin Alin Popescu– University of Agricultural Science and Veterinary Medicine Timişoara, Romania

## Organizers

Transilvania University of Braşov (UNITBV)  
Romanian Surveyors Union (UGR)

## Co-Organizers

National Agency of Cadastre and Land Registration (ANCPI)  
Technical Sciences Academy of Romania

Symposium venue: "Sergiu T. Chiriacescu" Aula of  
Transilvania University of Braşov  
Address: Brasov, Street Iuliu Maniu, no. 41A, 500091

## Sponsors



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