



**14 September , 2017**

**Ramada Plaza Bucharest Convention Center**

<b>Time</b>	<b>Event</b>	<b>Chair and Speakers</b>	<b>Place</b>
08:00 → 17:00	<b>Participants registration</b>		<b>Foyer</b>
09:00 → 10:30	<b>Welcome speeches</b>	<ul style="list-style-type: none"> <li>✦ Prof. PhD. Eng. Gheorghe BADEA, Dean – Faculty of Geodesy, Technical University of Civil Engineering, Bucharest - Chair</li> <li>✦ Dr. Chryssy A. POTSIOU, FIG President</li> <li>✦ Mrs. Gabriela FIREA, General Mayor of Bucharest</li> <li>✦ Mr. Mihai BUSUIOC, General Secretary of Romanian Government</li> <li>✦ Radu Codrut ȘTEFĂNESCU, Director of National Agency for Cadastre and Land Registration (ANCP)</li> <li>✦ Mrs. Adriana PETCU - State Secretary for Water, Water and Forest Ministry</li> <li>✦ Pr. Iulian IGNAT, Inspector Ecclesiastic Real Estate, Romanian Patriarchy</li> <li>✦ Mr. Eugen Constantin URICEC, State Secretary, Environment Ministry</li> <li>✦ Mr. Robert Sorin NEGOIȚĂ, Mayor of Sector 3 Bucharest</li> <li>✦ Mr. Daniel BĂLUȚĂ, Mayor of Sector 4 Bucharest</li> <li>✦ Prof. Dr. Eng. Johan NEUNER, President of the Senate of Technical University of Civil Engineering, Bucharest</li> </ul>	<b>Terra 2&amp;3</b>
10:30 → 11:30	<b>Opening Exhibition &amp; Poster Session</b>	<ul style="list-style-type: none"> <li>✦ Ph.D. Eng. Valeriu MANOLACHE, President of Romanian Association of Private Surveyors - Chair</li> <li>✦ Assoc. Prof. PhD. Eng. Ana Cornelia BADEA, FIG representative for Technical University of Civil Engineering, Bucharest - Chair               <ul style="list-style-type: none"> <li>○ <b>1. Nicolas POITRINEAU, Eric GASTINE, Marie Laure EL GAMMAL:</b> Safe Tunnelling Involves Real Time Accurate Monitoring Systems</li> <li>○ <b>2. Marius NEAGU, Doina VASILCA:</b> Using 3D laser scanning in the architectural field</li> <li>○ <b>3. Marta FIGURSKA, Justyna BRZEZICKA:</b> Price dispersion on a local real estate market vs. real estate appraisal: case study from Poland</li> <li>○ <b>4. Andreea-Mădălina GEMAN, Andreea LUICIANU, Mihaela OLTEANU, Ana-Cornelia BADEA:</b> <i>Using Methods for Collecting Data in the Benefit of the Local Community</i></li> </ul> </li> </ul>	<b>Foyer</b>

**Coffee break**

11:30 → 13:00

**Participating FIG Commissions presentations –  
plenary session**

**Terra 2&3**

- ✦ Prof. PhD. Eng. Cornel PĂUNESCU, President of Romanian Surveyors Union – Chair

Welcome speeches

- ✦ Ms. Gerda SCHENNACH, FIG Commission 7 Chair
- ✦ Mr. Kwame TENADU, FIG Commission 8 Chair
- ✦ Mr. Daniel MANAȚE, President of Romanian Evaluators Association
- ✦ Mr. Vasile CHIRIAC, General Secretary of CLGE

Keynotes speakers

- ✦ Dr. Daniel STEUDLER, Honorary member of FIG – *The Land Code – The forth revolution in Land Administration*
- ✦ Mr. Robert W. FOSTER, FIG Honorary President – *Creating a universal set of ethics principles for real estate and related professions*

13:00 → 14:00

**LUNCH**

**La Parc Restaurant**

14:00 → 15:30

**Platinum and Gold Sponsor presentations**

**Terra 2&3**

- ✦ Mr. George DAMIAN, General Manager Top Geocart - Chair
- ✦ S.C. Gauss S.R.L. Timisoara, Mircea STOIAN
- ✦ S.C. Heveco S.R.L. Ploiesti, Alina POPESCU/Adrian IONESCU
- ✦ S.C. RambolISEE S.R.L. Bucuresti, Silviu STOICA
- ✦ S.C. Corne&Cornel Topoexim S.R.L. Bucuresti, Cornel PĂUNESCU
- ✦ S.C. Teotop S.R.L. Bucuresti, Valeriu MANOLACHE
- ✦ S.C. Romair Consulting S.R.L. Bucuresti, Ionela ADAM
- ✦ S.C. Giscad S.R.L. Arad, Lucian BĂTRÎN
- ✦ S.C. TPI Positioning Solutions S.R.L. Brasov, Luca PASQUINI

**Cadastre and Land management, Valuation and the  
Management of real Estate**

**Meridian**

- ✦ Ms. Gerda SCHENNACH, FIG Commission 7 Chair – Chair

Keynotes speaker

- ✦ Mr. Gyula IVÁN, Government Office of the Capital City Budapest, Hungary – "Challenges in technology, society and policy - how they influences Cadastre and Real Estate Management"

Technical session

- **1. Maartje LOF:** *Land consolidation to improve land rights*
- **2. József Rákossy BOTOND:** *Cum sa nu faci cadastru?*
- **3. Cornel PĂUNESCU, Vlad PĂUNESCU, Mihaela CÂMPEANU, Florin NACHE:** *Methods for defining errors in the systematic cadaster*
- **4. Nicolae-Silviu MANDA:** *CADGen1.0 - Systematic Cadastre Application under AutoCAD andBricsCAD*

- **5. Gabriel BĂDESCU, Aurel CĂLINA, Jenica CĂLINA, Marius MILUT:** *Some Considerations Regarding the use of GNSS Technology in the 3D CAD In Romania*

## Spatial Planning and Development

Atlas

✚ Mr. Kwame TENADU, FIG Commission 8 Chair – Chair

### Technical session

- **1. Ioan STOIAN, Vasile NACU, Dan VELE:** *Cartographic expert system for sustainable development of the administrative territorial units (ATU)*
- **2. Constantin BOFU, Loredana CRENGANIS:** *Seismic Hazard Analysis of Buildings in Iasi City using Geographical Information Systems*
- **3. Dan VELE, Ioan STOIAN, Vasile NACU:** *Information System For Monitoring Climate Change*
- **4. Cristian TRIFANOV, Iulian NICHESU, Alexandru PĂUN, Marian MIERLA:** *Generation of geo-referenced Orthomosaics and Digital Elevation Models from aerial images obtained with UAVs – a silo case study as a trial for SCENT project*
- **5. Efthimios BAKOGIANNIS, Charalampos KYRIAKIDIS, Maria SITI, Nikolaos KOUGIOUMTZIDIS, Chryssy POTSIUO:** *The use of Volunteered Geographic Information (VGI) and crowdsourcing in noise mapping: An application in two Greek cities*

## Geoinformatics

Africa

✚ Assoc. Prof. PhD. Eng. Constantin CHIRILĂ, UTGA Iasi – Chair

### Keynote speaker

✚ Prof. PhD. Eng. Petre Iuliu DRAGOMIR, Faculty of Geodesy - UTCB

### Technical session

- **1. Constantin CHIRILĂ, Raluca Maria ALBU:** *Applying trigonometric levelling for monitoring the vertical deformations and displacements of the engineering structures*
- **2. Ana VLASENCO:** *Application of pan – European map projections on the territory of Republic of Moldova*
- **3. Vasile CHIRIAC:** *Height Reference Surface for high accuracy Digital Elevation Modelling in Republic of Moldova*
- **4. Corina Daniela PĂUN, Ersilia Valeria ONIGA, Petre Iuliu DRAGOMIR:** *The integration of RPAS and TLS data for 3D reconstruction of cultural heritage buildings*
- **5. Costin-Sebastian MANU, Larisa Ofelia FILIP, Ioan Cosmin CIUCULESCU, Dumitru Filip TIVIG, Cosmin CARTEȘ:** *Error sources in positioning using GNSS receivers*

15:30 → 16:00

Coffee break

16:00 → 17:30

Panel discussions on Self-regulated Profession from Terra 2&3

## Land administration prospective

- ✦ Prof. PhD. Eng. Petre Iuliu DRAGOMIR , Faculty of Geodesy UTCB – Chair
- ✦ Mr. Robert W. FOSTER, FIG Honorary President
- ✦ Ms. Gerda SCHENNACH, FIG Commission 7 Chair - CLGE representative
- ✦ Mr. Nicholas SMITH, Vice-president of CLGE
- ✦ Mr. Mircea STOIAN - General Director Gauss
- ✦ Mr. Alexandru PĂUN - UGR Tulcea
- ✦ Mr. Marcel GRIGORE, Deputy General Manager ANCP

## Cadastré and Land Management, Spatial Planning and Development

## Meridian

- ✦ Assoc. Prof. PhD. Eng. Ana Cornelia BADEA, FIG representative for Technical University of Civil Engineering, Bucharest – Chair

### Keynote speaker

- ✦ Mr. Kwame TENADU, FIG Commission 8 Chair - *FIG Commission 8 – Spatial planing and development. Mission and vision*

### Technical session

- **1. Ioel VERES, Dacian MARIAN, Klaus FISSGUS, Nelu ŞTEFAN:** *Analysis of Surface Subsidence for Establishing the Location of a Gas Pipeline*
- **2. George Laurenţiu MERCIU, Cristina MERCIU, Andreea-Loreta CERCLEUX, Elena BOGAN:** *The Assessment of the Infant Mortality Rate in Romanian Small and Medium-Sized Industrial Towns Using Spatial Analysis*
- **3. George Laurenţiu MERCIU, Ioan IANOS, Vlad PĂUNESCU, Cristina MERCIU:** *Using GIS to Mapping the Accessibility for an Earthquake Emergency Situation. Case Study: Historic Urban Centre of Bucharest*
- **4. Alexandru Bogdan GIURGIU, Ionela Lacramioara ADAM, Petre Iuliu DRAGOMIR:** *GIS Solution using Open Source Software for General Cadastre*
- **5. Anca-Maria MOSCOVICI, Carmen GRECEA, Raluca VĂDUVA:** *Challenges of Sustainable Redevelopment of Brownfield SITES in the Metropolitan Area of Timisoara*
- **6. Ana Cornelia BADEA, Gheorghe BADEA:** *Facing with Sustainable Development for Smart Cities through Geospatial Standards and GIS*

## Valuation and the Management of Real Estate

## Atlas

- ✦ Manohar VELPURI - FIG Commission 9 Vice-president – CHAIR

### Keynote speaker

- ✦ Mr. Daniel MANAŢE, President of Romanian Evaluators Association – *Quantitative Technics in Land valuation*

### Technical session

- **1. Ryszard ŻRÓBEK, Sabina ŻRÓBEK:** *Real estate valuation for planning and adjacent fees - dilemmas of the Polish property valuers*
- **2. Malgorzata RENIGIER-BILOZOR, Maurizio d'AMATO, Artur JANOWSKI:** *Automated Valuation of Real Estate Model based on Rough Set Theory*
- **3. Marek WALACIK, Malgorzata RENIGIER-BILOZOR:** *Highest and best use in property valuation*
- **4. Anca-Maria MOSCOVICI, Cosmin Constantin MUŞAT, Adrian ALIONESCU:** *The Impact of Romanian Expropriation Laws on Cadastral Works*
- **5. Marta FIGURSKA, Justyna BRZEZICKA:** *Price dispersion on a local real estate market vs. real estate appraisal: case study from Poland*

#### Young Surveyors Workshop

Africa

✚ Mr. Vlad PĂUNESCU , Cornel&Cornel Topoexim – Chair

Keynote speaker

✚ Pietro GRIMALDI, Italy – *Survey to Planning: New Technologies and Land Protection*

19:00 →

**UGR and FIG Commissions DINNER**

**La Parc Restaurant**

**15 September, 2017**

**Ramada Plaza Bucharest Convention Center**

Time	Event	Chair and Speakers	Place
08:00 → 09:00	<b>Participants registration</b>		<b>Foyer</b>
09:00 → 11:00	<b>Panel discussions on National Program for Cadastre and Land Registration</b>	<ul style="list-style-type: none"> <li>✚ Ph.D. Eng. Ileana SPIROIU - Deputy General Director of ANCPI - Chair</li> <li>✚ Mrs. Eugenia SAS - Land Registration ANCPI</li> <li>✚ Mr. Cosmin CIUCULESCU - President of UGR Bucharest 6 local association</li> <li>✚ Ph.D. Eng. Valeriu MANOLACHE – President APCGC</li> <li>✚ Prof. Ph.D. Eng. Gheorghe BADEA – Dean of Faculty of Geodesy</li> <li>✚ Mayor Emil DRĂGHICI, President of Association of Romanian Communes</li> </ul>	<b>Terra 2&amp;3</b>
11:00 → 11:30	<b>Coffee break</b>		
11:30 → 13:00	<b>Cadastre and Land Management, Spatial Planning and Development</b>	<ul style="list-style-type: none"> <li>✚ Mr. Ionuț Cristian SĂVOIU, FIG Comm 3 National representative – Chair</li> </ul> <p>Keynote speakers</p> <ul style="list-style-type: none"> <li>✚ Mr. Marcel GRIGORE, Deputy General Director ANCPI: <i>ANCPI – its role in the national system for land administration</i></li> <li>✚ Mayor Emil DRĂGHICI, President of Association of Romanian Communes</li> </ul>	<b>Terra 2&amp;3</b>

#### Technical session

- **1. Konstantinos APOSTOLOPOULOS, Giorgos MITTAS, Konstantinos RETSAS, Charalabos IOANNIDIS, Chryssy POTSIU:** *Assessment of the Legalization Framework of Informal Development in Greece*
- **2. Alexandru Bogdan GIURGIU, Ionela Lacramioara ADAM, Petre Iuliu DRAGOMIR:** *GIS-based Landslide susceptibility in Vrancea County*
- **3. Vasile-Gabriel Dascălu, Ana-Cornelia BADEA:** *Spatial Access to Medical Services using GIS Techniques – Valcea County, Romania*
- **4. Iuliana Maria PÂRVU, Adrian Grigore PÂRVU:** *Analiza riscurilor in cazul dezastrelor naturale utilizand tehnologia LiDAR*

#### Spatial Planning and Development

#### Meridian

- ⊕ Prof. PhD. Arch. Cătălin SÂRBU – “Ion Mincu” University of Architecture and Urbanism, Bucharest – Chair

#### Keynote speaker

- ⊕ Mrs. Diana ȚENEĂ - General Director, Ministry of regional development

#### Technical session

- **1. Elzbieta ZYSK, Rożańska Alina ZROBEK:** *Identification of seniors’ residential needs in Poland*
- **2. Clara-Beatrice VÂLCEANU, Carmen GRECEA, Sorin HERBAN:** *Spatial data geoportal for Local Administration – smart solution for a secure and valuable cultural heritage*
- **3. Aurel SĂRĂCIN, Constantin COȘARCĂ:** *3D City Modeling: Techniques and Applications*
- **4. Disha Kirtikumar PUJARA:** *Activity Centers - One Place to (Live, Work & Play)*
- **5. Ana-Maria TOPOREȚ, Livia NISTOR-LOPATENCO, Ion BOICU:** *Using geodetic technologies for monitoring of the landslides*

#### Valuation and the Management of Real Estate

#### Atlas

- ⊕ Mr. Daniel MANAȚE, President of Romanian Evaluators Association – Chair

#### Keynote speaker

- ⊕ Mr. Adrian VASCU, ANEVAR President 2014 – 2015 – *The correlation between “The Market Value Test” and the sale prices of the real estate propertie*
- ⊕ Mrs. Alina RÂNBU, ANEVAR lecturer – *The mutual benefit of the correlation between cadaster system and real estate valuation*

#### Technical session

- **1. Daniela RĂBOJ, Alexandra Nadia DABIJA (married CÎRDEI), Dumitru ONOSE:** *Sound pollution and real estate prices in Bucharest, Romania*
- **2. Manohar VELPURI, Surya BHAMIDIPATI, Madhu Aman SHARMA, Chetan MARINGANTI, Yee Hoong CHIN, Anusha PIDUGU:** *Distributed*

*ledger technologies and blockchain for a better Sustainable development goals framework*

- **3. Silvia CHIOREAN, Dumitru ONOSE, Mircea ORTELECAN, Maricel PALAMARIU:** *Statistics - Analysis, Modeling, Forecasting and Optimization - Applied in Real Estate Valuation*
- **4. Silvia CHIOREAN, Dumitru ONOSE, Maricel PALAMARIU, Tudor SĂLĂGEAN:** *The Use of GIS in Order to Improve the Real Estate Valuation*

#### Geoinformatics

#### Africa

✦ Assoc. Prof. PhD. Eng. Tiberiu RUS, UTCB, Faculty of Geodesy, UTCB– Chair

Keynote speaker

✦ Prof. Dr. Eng. Johan NEUNER , Faculty of Geodesy, UTCB

✦ Mr. Ralph SCHROTH - Managing Director Blom Deutschland GmbH - *Asset Management by Mobil Mapping - Controlling for Public Services*

Technical session

- **1. Sabina PLĂVICHEANU, Florin NACHE, Petre Iuliu DRAGOMIR:** *Smart Managing Aeronautical Data*
- **2. Stefana Ruxandra IONEANU, Mihaela GHEORGHE:** *Monitoring deforestation in Apuseni National Park between 2000-2016 using Landsat satellite imagery*
- **3. Cornel PĂUNESCU, Florin NACHE, Roxana Augustina STĂNESCU:** *Determination of altitudes by the trigonometric leveling with different refraction coefficients*
- **4. Roxana Augustina STĂNESCU, Florin NACHE, Cornel PĂUNESCU:** *Vertical and horizontal displacement monitoring at Poiana Marului dam*
- **5. Dumitru-Filip TIVIG, Costin-Sebastian MANU, Cosmin-Ion CIUCULESCU:** *Tracing and Traking Mining and Auxiliary Work at Tismana Open Pit Mine*

13:00 → 14:00

**LUNCH**

**La Parc Restaurant**

14:00 → 15:30

**Panel discussion on GEOID determination**

**Terra 2&3**

✦ Lecturer PhD. Eng. Paul DUMITRU, Faculty of Geodesy, UTCB - Chair

✦ Ph.D Eng. Ileana SPIROIU - Deputy General Director of ANCP

✦ PhD. Eng. Neculai AVRAMIUC , Mapping National Centre - ANCP

✦ Prof. Vasile CHIRIAC, General Secretary CLGE

✦ Prof. Ralph SCHROTH, Managing Director Blom Deutschland GmbH, Germany

✦ Col (r.) Marin Alnitei, Controlling Director, ANCP

✦ Assoc. Prof. PhD. Eng. Tiberiu RUS, Faculty of Geodesy UTCB

#### Geoinformatics

#### Meridian

✦ Assoc. Prof. PhD. Eng. Adrian SAVU, Faculty of Geodesy UTCB – Chair

Keynote speaker

✦ Prof. PhD. Eng. Constantin COȘARCĂ, Faculty of Geodesy UTCB

#### Technical session

- **1. Ileana SPIROIU, Radu-Dan-Nicolae CRIȘAN, Cătălin ERHAN, Neculai AVRAMIUC, Miluță FLUERAȘ:** *Geo-gravimetric Quasi-geoid Determination over Romania*
- **2. Dan VELE, Vasile NACU, Ioan STOIAN:** *GEODETIC METHODS FOR CRUSTAL MOVEMENTS AND EARTHQUAKES PREDICTION*
- **3. Dan VELE, Vasile NACU:** THE DETERMINATION OF POTENTIAL ENERGY ACCUMULATION IN THE TERRESTRIAL CRUST USING GEODETIC MEASUREMENTS
- **4. Alexandra Nadia DABIJA (CÎRDEI), Dumitru ONOSE:** Prediction of the behavior of a bridge using the deformation model
- **5. Ben Ikhlef ILIES:** Geostatistics as a tool for interpolation and mapping of the gravity anomaly and the geoid height

#### Young Surveyors Workshop

Atlas

✦ Lecturer PhD. Eng. Aurel NEGRILĂ, Faculty of Geodesy, UTCB – Chair

#### Technical presentation

✦ Mr. Radu JIANU, MicroGeo

#### National Board of Romanian Surveyors Union

Africa

✦ Mr. Neculai CAIA, Executive Secretary of Romanian Surveyors Union - Chair

✦ Prof. PhD. Eng. Cornel PĂUNESCU, President of Romanian Surveyors Union

15:30 → 16:00

Coffee break

16:00 → 17:30

#### Closing Plenary Session

Terra 2&3

✦ Prof. PhD. Eng. Cornel PĂUNESCU, President of Romanian Surveyors Union

✦ Prof. PhD. Eng. Gheorghe BADEA, Dean - Faculty of Geodesy, Technical University of Civil Engineering, Bucharest

19:00 →

GALA DINNER

Terra Ballroom