

<b>DEPARTMENT OF MAPPING AND LAND CONSOLIDATION</b>
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## I. STAFF

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## II. EQUIPMENT

### II.1 Teaching and Research Laboratories

Computer Graphics Laboratory  
Map Reproduction Laboratory  
Micrographics Laboratory

### II.2 Special Measuring Instruments and Computers

Total Stations: Topcon GTS-6, CTS-1  
Offset Printing Machine: ADAST 315  
GPS receivers: Garmin eTrex Legend  
Electronic distance meters: Leica DISTO Classic5

### III. TEACHING

#### III.1 Graduate Study

Subjects	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Cartographic Techniques and Norms	3	0 - 2		M. Potočárová
Topography	4	2 - 2		J. Čižmár
Cadastral Mapping	5	3 - 3		J. Bartaloš
Cartographic Creation and Reproduction	5	3 - 3		J. Čižmár
Land Surveying, Cartography and Cadastre of Real Estate	5	3 - 2		J. Bartaloš
Cadastre of Real Estate	6	3 - 3		J. Bartaloš
Land Consolidation	6	3 - 3		R. Geisse
Management of Geodetic Activities	6	1 - 2		E. Geisse
Field Practise in the Cadastre of Real Estate	6	2 weeks		J. Bartaloš
Environmental Landscape Model	8	2 - 2		J. Bartaloš
Cartometry	8	2 - 2		R. Fencík
Land Consolidation 2	9	2 - 2		R. Geisse
Mathematical Cartography	9	2 - 2		M. Vajsáblová
Realisation of Land Consolidation	9	2 - 2		R. Geisse
Large-Scale Maps	8	2 - 2		J. Bartaloš
Cadastral Data Analysis Methods	9	2 - 3		J. Bartaloš
Specialised Field Practise	9	2 weeks		R. Geisse
Value and Cost of Land	9	2 - 3		E. Geisse
Digital Cartographic Model	10	3 - 3		J. Čižmár

### V. RESEARCH PROJECTS

1. Geometric Aspect of Modeling Landscape Elements and Their Spatial Application.

### VI. COOPERATION

#### VI.1 Cooperation in Slovakia

1. Ministry of Agriculture, Bratislava
2. Slovak Land Fund, Bratislava
3. Cadastral Office, Bratislava
4. Soil Research Institute, Bratislava
5. Geodesy, Cartography and Cadastre Authority, Bratislava
6. Geodetic and Cartographic Institute, Bratislava
7. VKÚ, a.s., Harmanec
8. Military Topographic Institute, Banská Bystrica
9. Geographic Institute, Slovak Academy of Sciences, Bratislava
10. Cartographic Society of the Slovak Republic, Bratislava
11. Cadastral Institute, Žilina
12. Research Institute of Geodesy and Cartography, Bratislava

13. Department of Cartography, Geoinformatics and Remote Sensing, Comenius University, Bratislava

## VI.2 International Cooperation

1. Central European Land Knowledge Center (CELK), Budapest, Hungary
2. ICA-Commission on Theoretical Cartography, Federal Republic of Germany
3. Military Academy, Department of Military Information, Brno, Czech Republic
4. G.E.O.S., Freiberg, Federal Republic of Germany

### VI.2.1 Visitors to the Department

1. 14 experts on a Land Cadastre within the project TACIS – Project Land and Property Reform II, Russian Federation.

## VII. THESES

### VII.1 Graduate Theses

No.	Student's Name	Title	Supervisor
1.	Briatková, Z.	Analysis of the Accuracy of Cadastral Map Renewal	Bartaloš
2.	Deák, P.	Time in Spatial Databases	Čižmár
3.	Gajdošová, L.	A Cadastre of Real Estate and Electrical Lines and Pipelines with Their Protective Zones	Horňanský
4.	Hajková, P.	A Cadastre of Real Estate and Registering Buildings and Rights to Buildings	Horňanský
5.	Haličková, J.	A Cadastre of Real Estate and Registering an Easement and the Rights Resulting Therefrom	Horňanský
6.	Hiklová, D.	Resolution of Agricultural Lots for a Livestock Farm	Geisse E.
7.	Kadáková, Z.	Analysis of the Accuracy of Transformations for Digitizing Analogue Cadastral Maps	Bartaloš
8.	Kubasák, T.	Angle Distorsion of a Loxodrome in Conical Projections	Vajsáblová
9.	Lieskovský, T.	Spatial Analyses of Prehistoric Objects on Maps	Čižmár
10.	Marcinová, L.	A Land Consolidation Project and Protective Zones of Natural and Curative Water Resources	Bartaloš
11.	Matejka, L.	Thematic Maps from a Digital Elevation Model in a Land Consolidation Project	Fencík
12.	Michalec, P.	Registering Underground Buildings, Ownership Rights to Underground Buildings and an Easement Resulting from Underground Buildings in a Cadastre of Real Estate	Horňanský
13.	Penčev, F.	3D Modelling of Spatial Landscape Objects	Geisse R.
14.	Rusnák, P.	Parameters of Interpolation Methods in the Creation of DEM	Vajsáblová
15.	Srniaková, J.	Modelling of Common Systems in a Land Consolidation Project	Geisse E.

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| 16. | Šimečková, L.  | Organisation of a Territory for Different Types of Farming on Soil            | Geisse R. |
| 17. | Šimonič, P.    | Timeliness of Contents of Vector Cadastral Maps for a Cadastral Portal        | Bartaloš  |
| 18. | Veselovský, M. | Project Documentation of a Roadside Field                                     | Geisse R. |
| 19. | Volf, M.       | Methods of Spatial Interpolation in the Creation of a Digital Landscape Model | Fencík    |

## IX. PUBLICATIONS

### IX.1 Journals

#### Contributions to Proceedings in Slovakia:

- [1] BARTALOŠ, J.: History and Features of Boundaries of Cadastral Districts. In: Geodetický a kartografický obzor, Vol. 52/94, 8/2006, Prague 2006, pp. 144 -146.
- [2] BARTALOŠ, J.: Research Activity and Increase in Qualifications of the Employees of the Department of Mapping and Land Consolidation. In: Proceedings of Pedagogické listy 13/2006: Actual Problems of Cartography, Cadastre of Real Estate and Land Consolidation, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2006, pp. 27-32.
- [3] BARTALOŠ, J.: A Few Remarks on the Paper of Ing. Michal Forint, PhD. – Permissible Deviations in a Stereographic Projection and Their Effect on the Accuracy of the Area of Lots. Slovak Surveyor and Cartographer, Vol. XI, 1/2006, Chamber of Surveyors and Cartographers, Bratislava 2006, pp. 31-32.
- [4] ČIŽMÁR, J.: 50 Years of the Department of Mapping and Land Consolidation at the Faculty of Civil Engineering, STU, Bratislava. In: Geodetický a kartografický obzor, Vol. 52/94, 8/2006, Prague 2006, pp.137-139.
- [5] ČIŽMÁR, J.: Geographic Database of Flood Protection. In: Geodetický a kartografický obzor, Vol. 52/94, 8/2006, Prague 2006, pp. 150-153.
- [6] DROPOVÁ, V.: Modelling the Real World in a GIS Environment. In: Proceedings of Pedagogické listy 13/2006: Actual Problems of Cartography, Cadastre of Real Estate and Land Consolidation, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2006, pp. 51-57.
- [7] DROPOVÁ, V.: Modelling Geographic Space in Land Surveying and Cartography. In: Proceedings of Activities in Cartography 2006 Conference, Cartographic Society and Geographic Institute of the Slovak Academy of Sciences, Bratislava 2006, pp. 85-94.
- [8] HORŇANSKÝ, I.: Geometric Determination of an Extended Easement for One Category of Engineering Buildings. In: Geodetický a kartografický obzor, Vol. 52/94, 1/2006, Prague 2006, pp. 8-12.
- [9] HORŇANSKÝ, I.: Parcel Renumbering and Legal Security. In: Geodetický a kartografický obzor, Vol. 52/94, 6/2006, Prague 2006, pp. 110-113.
- [10] HORŇANSKÝ, I.: The Success of Land Consolidation. In: Geodetický a kartografický obzor, Vol. 52/94, 7/2006, Prague 2006, pp. 124-126.

- [11] HORŇANSKÝ, I.: Function of Geographic Terminology in a Map Series. In: Geodetický a kartografický obzor, Vol. 52/94, 7/2006, Prague 2006, pp.131-132
- [12] HORŇANSKÝ, I.: Return to the “Superficies Solo Cedit” Principle in a Cadastre of Real Estate. In: Geodetický a kartografický obzor, Vol. 52/94, 8/2006, Prague 2006, pp. 140-143.
- [13] HORŇANSKÝ, I.: One Type of Geographic Name. In: Kultúra slova, Vol. 40, 3/2006, Slovak League, Martin 2006, pp. 152-155.
- [14] FENCÍK, R.: Acquisition of Spatial Data for the Analysis of Archeological Objects. In: Geodetický a kartografický obzor, Vol. 52/94, 8/2006, Prague 2006, pp. 147-150.
- [15] FENCÍK, R. - URBINA VELASCO, J.: Using Spatial Data in an Archeological Survey. In: Kartografické listy No. 14, Cartographic Society and Geographic Institute of the Slovak Academy of Sciences, Bratislava 2006, pp. 16-22 (in English).
- [16] FENCÍK, R.: Attribution of Data in Geoinformation Applications. In: Modelling Spatial Objects in Geoinformation Applications - Continuing Education in the Building Industry and Geodesy, Faculty of Civil Engineering, Bratislava 2006, 8 pp. [CD-ROM].
- [17] GEISSE, E.: Methodology of Land Consolidation Design. In: Proceedings of 14th Slovak Geodetic Days, Chamber of Surveyors and Cartographers, Bratislava 2006, pp. 169-174.
- [18] GEISSE, E.: Methodical Directions for the Creation of Land Consolidation Projects. In: Proceedings of Pedagogické listy 13/2006: Actual Problems of Cartography, Cadastre of Real Estate and Land Consolidation, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2006, pp. 81-85.
- [19] GEISSE, R.: Using Thematic Maps from a Digital Relief Model for Land Consolidation Design. In: Geodetický a kartografický obzor, Vol. 52/94, 8/2006, Prague 2006, pp. 154-157.
- [20] GEISSE, R.: The Current Pedagogical Activity of the Department of Mapping and Land Consolidation. In: Proceedings of Pedagogické listy 13/2006: Actual Problems of Cartography, Cadastre of Real Estate and Land Consolidation, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2006, pp. 87-91.
- [21] HUDEC, P. - ČIŽMÁR, J.: The Creation of Rules for a Geoinformation Model of Flood Protection. In: Proceedings of Activities in Cartography 2006 Conference, Cartographic Society and Geographic Institute of the Slovak Academy of Sciences, Bratislava 2006, pp. 112-118.
- [22] KRUŽLIAK, M.: A Geoinformation System for Land Consolidation. In: Proceedings of Pedagogické listy 13/2006: Actual Problems of Cartography, Cadastre of Real Estate and Land Consolidation, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2006, pp. 93-98.

#### Contributions to Proceedings Abroad:

- [1] FENCÍK, R. - VAJSÁBLOVÁ, M.: Parameters of Interpolation Methods in the Creation of a Digital Landscape Model. In: Proceedings of 9th AGILE Conference on Geographic Information Science, Shaping the Future of Geographic Information Science in Europe, University of West Hungary, Székesfehérvár (Hungary), 2006, pp. 374 - 381.

- [2] DROPOVÁ, V. - KRUŽLIAK, M.: Structure of a Geoinformation System for Land Consolidation. Proceedings of 8th Specialized Doctoral Study Conference on Section 6: Geodesy and Cartography, Technical University of Brno, Brno (Czech Republic) 2006, 6 pp. [CD-ROM].

## **IX.2 Books and Text books**

- [1] HORŇANSKÝ, I.: Cadastral Mapping. Slovak University of Technology, 1<sup>st</sup> ed., Bratislava 2006, 234 pp.

## **IX.3 Conferences**

- [1] 8th Specialized Doctoral Study Conference, Brno, Czech Republic, February 2006
- [2] 9th AGILE Conference on Geographic Information Science, Székesfehérvár, Hungary, April 2005
- [3] Conference on Actual Problems of Cartography, Cadastre of Real Estate and Land Consolidation, Bratislava, September 2006
- [4] Seminar on Activities in Cartography 2006, Bratislava, September 2006
- [5] The 14th Geodetic Days Conference, Bratislava, November 2006