

DEPARTMENT OF MAPPING AND LAND CONSOLIDATION

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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

Digitiser: Cartometer CAR-A2

III. TEACHING

III.1 Graduate Study

Subjects	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Cartographic Techniques and Norms	2	0 - 2		M. Potočárová
Mathematical Cartography	9	2 - 2		J. Val'ko
Topography	4	2 - 2		J. Čižmár
Cadastral of Real Estate	6	3 - 3		I. Horňanský
Large-Scale Maps	8	2 - 2		J. Bartaloš
Registration and Land Consolidation	7	3 - 1		J. Bartaloš
				R. Geisse
Cadastral Mapping	5	3 - 3		J. Bartaloš
Cartographic Creation and Reproduction	5	3 - 3		J. Čižmár
Value and Cost of Land	9	2 - 3		E. Geisse
Cadastral Data Analysis Methods	9	2 - 3		J. Bartaloš
Land Consolidation	6	3 - 3		E. Geisse
Cartometry	8	2 - 2		J. Val'ko
Management of Geodetic Activities	6	1 - 2		J. Val'ko
Digital Cartographic Model	10	3 - 3		J. Čižmár
Realisation of Land Consolidation	9	2 - 2		E. Geisse
Land Surveying, Cartography and Cadastral of Real Estate	5	3 - 2		J. Bartaloš

V. RESEARCH PROJECTS

1. New Model of Land Consolidation of an Agricultural Region Based on Identification of Real Property and Usage.

VI. COOPERATION

VI.1 Cooperation in Slovakia

1. Ministry of Agriculture, Bratislava
2. Land Office, Bratislava
3. Slovak Land Fund, Bratislava
4. Cadastral Office, Bratislava

5. Soil Research Institute, Bratislava
6. Geodesy, Cartography and Cadastre Authority, Bratislava
7. Institute of Geodesy and Cartography, Bratislava
8. VKÚ, a.s., Harmanec
9. Military Topographic Institute, Banská Bystrica
10. Geographic Institute, Slovak Academy of Sciences, Bratislava
11. Cartographic Society of the Slovak Republic, Bratislava
12. Cadastral Institute, Žilina
13. Research Institute of Geodesy and Cartography, Bratislava

VI.2 International Cooperation

1. ICA-Commission on Standards for the Transfer of Spatial Data, USA
2. Military Academy, Department of Military Information, Brno, Czech Republic
3. G.E.O.S., Freiberg, Federal Republic of Germany

VII. THESES

VII.1 Graduate Theses

No.	Student's Name	Title	Supervisor
1.	Baksa, K.	Error Analysis in Cadastral Documentation	Bartaloš
2.	Beťko, M.	Modelling Technical and Ecological Measures	Geisse
3.	Csókásová, T.	Boundary Identification of Real Properties	Bartaloš
4.	Dernerová, A.	Record of Rights to Non-Residential Spaces in the Cadastre of Real Estate	Bartaloš
5.	Dindoš, J.	Cartographic Projections: Map of the Moon	Val'ko
6.	Dúcka, K.	Survey Sketch for Assessment of Ownership Rights	Bartaloš
7.	Giba, P.	Technical Measures in a Land Consolidation Project	Geisse
8.	Ježíková, J.	Creation of a Thematic Map of Slovakia Using Digital Technology	Čižmár
9.	Kamenský, R.	Analysis of Land Use from Interpretation of Map Documentation and Aerial Photographs	Čižmár
10.	Kružliak, M.	Design of Road Network in a Land Consolidation Project	Geisse
11.	Lacko, M.	Unified Map Series of the SR on a Medium Scale	Čižmár
12.	Matejovičová Z.	Creation of a Single Layer of Land Consolidation for a Thematic Agricultural Map	Geisse
13.	Mego, F.	Cadastral Maps of Slovakia in Non-Defined and Stereographic Projection	Val'ko
14.	Mihál, I.	Cartographical Modelling of Spatial Structures	Čižmár
15.	Mihalíková, B.	Land Fund Organisation for Farms and Small Farmers	Geisse
16.	Miklušová, J.	Cartographic Representation of Reality in Geoinformation Technologies	Čižmár
17.	Mišík, M.	Classification and Hierarchical Structure of Geoobjects.	Čižmár
18.	Nosálová, M.	Cartographic Projection of Iraq	Val'ko
19.	Oščiátka, R.	Possibilities of Usage of GPS Data for the Creation of Large-Scale Maps	Bartaloš

20	Poláčková, K.	Geoinformation Sources of the Cadastre of Real Estate	Bartaloš
21	Rokoszová, M.	Functional Landscape Consolidation	Geisse
22	Segečová, J.	Subdivision Plan for Location and Staking-Out	Geisse
23	Vitališ, K.	Creation of a Thematic Map Using Digital Technology	Čižmár
24	Vlachovič, J.	Cartometric Analysis of Data Sources for Geographic Information Systems	Čižmár

IX. PUBLICATIONS

IX.1 Journals

Contributions to Proceedings in Slovakia:

- [1] Horňanský, I : An Evolutionary Trend or Accident? In: Geodetický a kartografický obzor Vol. 49/91, 6/2003, Prague 2003, pp. 109-112
- [2] Horňanský, I : Could We Prevent Land Disintegration? In: Geodetický a kartografický obzor Vol. 49/91, 11/2003, Prague 2003, pp. 235 - 239
- [3] Petrisková B., Čižmár, J.: Experimental Model of Wind Erosion in a GIS Environment. In: Geodetický a kartografický obzor Vol.49/91, 7-8/2003, Prague 2003, pp.176-181
- [4] Jurašík, R.: Cartographical Support of a Geographical Information System for an Agricultural Region. In: Proceedings of 15th Cartographic Conference: Geoinformatisation of Cartography, Zvolen 2003, pp.157-168
- [5] Čižmár, J.: Innovative Technological Techniques in Cartography. In: Proceedings of 11th Slovak Geodetic Days, Chamber of Surveyors and Cartographers, Bratislava 2003, pp. 97-102
- [6] Geisse, R.: Ecological Stability of Territory under Land Consolidation. In: Proceedings of 11th Slovak Geodetic Days, Chamber of Surveyors and Cartographers, Bratislava 2003, pp. 121-128
- [7] Ivanová, I., Fencík, R., Chalachanová, J., Valachovičová, L.: Contribution to Selected Terms in the Geoinformatic Field. In: Proceedings of Geographic Information - Terminology in ISO Norms, Geographic Institute of the Slovak Academy of Sciences, Bratislava 2003, pp. 59-62
- [8] Geisse, E. - Geisse, R.: Projection and Realisation of Land Consolidation Activities and Roles of Authorized Surveyors and Cartographers, Chamber of Surveyors and Cartographers, Bratislava 2003, pp. 121-128
- [9] Čižmár, J.: Cartographic Interpretation in Land Consolidation Projects. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 63-71
- [10] Čuláková, K.- Ofúkaný, M.: Accuracy of the Digital Terrain Model of the Kočín Agricultural Farm. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 93-107

- [11] Csókásová, T.: Vineyard Register of the Slovak Republic. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 109-116
- [12] Fencík, R.: Using GPS for a Land Consolidation Project. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 73-77
- [13] Geisse, E.: Ecological Measures within Land Consolidation. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 39-52
- [14] Geisse, R.: Optimal Design of a Landscape Model for a Land Consolidation Project. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 29-38
- [15] Horňanský, I.: Amendment of Cadastral Law. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava 2003, pp. 23-27
- [16] Kružliak, M.: Creation of a Thematic Map of Technical Measures. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 117-120
- [17] Potočárová, M.: Data from the Cadastre of Real Estate for the Creation of Land Consolidation Projects. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 57-61
- [18] Schváb, M.: Utilization of Base Sources from the Cadastre of Real Estate after ROEP. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 53-56
- [19] Vaľko, J.: Transformation of S-JTSK to the Unified Geodetic Coordinate System of the European Union. In: Proceedings of Pedagogické listy 10/2003: Land Consolidation under Conditions of the European Union, Department of Mapping and Land Consolidation of the Faculty of Civil Engineering, Bratislava 2003, pp. 89-91

Contributions to Proceedings Abroad:

- [1] Horňanský, I. : The Land Register – Cadastre of Real Estate in the Slovak Republic on the Way to the European Union. In: Geodesy and Cartography 1/2003, Budapest, Hungary 2003, pp. 23 – 30
- [2] Bada, M. – Horňanský, I. : Digitizing of Non-Numerical Cadastral Maps. In: Proceedings of 20th Specialized Workshop on the Old Austrian Cadastre, Rovinj, Croatia 2003, 8 pp.
- [3] Jurašík, R.: Characteristics and Metric Analysis of the Data Sources for a Geographic Information System. In: Proceedings of 5th Specialized Doctoral Study Conference –

Section 11: Geodesy and Cartography, Technical University of Brno, Brno 2003, p.99 (full text on CD)

- [4] Petrisková, B.: Design of Structure and Implementation of the Gaussian Plume Model in GIS and Aspects of Modelling Wind Erosion. In: Proceedings of 5th Specialized Doctoral Study Conference – Section 11: Geodesy and Cartography, Technical University of Brno, Brno 2003, p.99 (full text on CD)

IX.2 Books and Text books

- [1] Horňanský, I.: Cadastre of Real Estate in Practice. EPOS, Bratislava 2003, 365 pp.

IX.3 Conferences

- [1] International GIS Conference Ostrava 2003, Ostrava, Czech Republic, January 2003
- [2] The 5th Specialized Doctoral Study Conference, Brno, Czech Republic, February 2003
- [3] The 20th Specialized Workshop on the Old Austrian Cadastre, Rovinj, Croatia, May 2003
- [4] The 15th Cartographic Conference–Geoinformatisation of Cartography, Zvolen, September 2003
- [5] Seminar on Geographic Information, Terminology in ISO Norms, Bratislava, November 2003
- [6] Seminar on Land Consolidation under Conditions of the European Union, Bratislava, November 2003
- [7] The 11th Geodetic Days Conference, Bratislava, December 2003