

<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: GTS-6, CTS-1  
Offset Print Machine: ADAST 315  
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		M. Hájek
Cadastré of Real Estate	6	3 - 3		J. Bartaloš
Large-Scale Maps	8	2 - 2		J. Bartaloš
Maintenance and Land Consolidation	7	3 - 1		E. Geisse J. Bartaloš
Cadastral Mapping	5	3 - 3		J. Bartaloš
Cartographic Creation and Reproduction	5	3 - 3		J. Čižmár
Values 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

### V. RESEARCH PROJECTS

1. Geoinformatic Management and Its Cartographic Support (2001-2003, J.Čižmár)

### 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, Banska 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.	T. Baďura	Users' Valuation of Geo-Data Bases in State Information System	Hájek
2.	K. Čuláková	Conceptual Model of Area and Its Quality Geo-Characteristics	Hájek
3.	I. Fučilová	Geographical Centre of Slovakia	Vaľko
4.	Z. Gallová	Relevant Object Identification in Geo-Model of the Land	Hájek
5.	Z. Haličková	Antarctica in Cartographic Projections	Vaľko
6.	F. Hrušovský	Error Analysis in Cadastral Documentation	Bartaloš
7.	Z. Jedličková	Geo-Model Structure of Land Elements	Čižmár
8.	J. Ježíková	Creation of Thematic Map of Slovakia Using Digital Technology	Čižmár
9.	M. Jurčovič	Information Sources of Geographic Information Systems	Čižmár
10.	Z. Kočalková	Land Occupation Analysis Induced by Technical Measures as Part of Land Consolidation	Geisse
11.	N. Koláriková	Entry of Owner Rights to Dwellings and Non-Dwelling Places in the Real Estate Cadastre	Bartaloš
12.	A. Kručayová	Land Fund Organisation for Agricultural Companies	Geisse
13.	J. Kubánová	Actual Condition of Cadastral Maps of Slovakia Made by Datum of Unified Trigonometric Cadastral Network (S-JTSK)	Vaľko
14.	Z. Matejovičová	Creation of Individual Land Consolidation Levels for a Thematic Agricultural Map	Geisse
15.	B. Mihaliková	Land Fund Organisation for Farms and Small Producers	Geisse
16.	K. Mihalovičová	General Map of Afghanistan	Vaľko
17.	M. Miklós	Topological Aspects of Geo-Data as a Fundamental Base for Geographic Information System (ZB-GIS)	Čižmár
18.	M. Mikuláši	Thematic Map Creation Using Digital Technology	Čižmár
19.	A. Pšenko	Geoinformation Analysis of Land Geo-Model and Generalization	Hájek
20.	R. Riško	Cadastral Maps of Slovakia Made by Stereographical and Fasching Cylindrical Projection	Vaľko
21.	R. Sadloň	Land Occupation Analysis – a Case for Ecological Measures as Part of Land Consolidation	Geisse
22.	A. Szabóová	Cartographic Projection Design for China	Vaľko
23.	B. Šály	Geographic Information System Structure and Integrity	Čižmár

24	R. Ščepka	Updating a Digital Map of Municipal Utilities Based on the File of Survey Data in the Real Estate Cadastre	Bartaloš
25	E. Tóth Kuruczová	Cadastral District Boundary Identification	Bartaloš
26	E. Vozárová	Survey Sketch for Ownership Rights Assessment	Bartaloš
27	M. Vrábek	Agricultural Objects and Attributes in the Real Estate Cadastre	Bartaloš

## IX. PUBLICATIONS

### IX.1 Journals

Contributions to Proceedings in Slovakia:

- [1] Čižmár, Ja. - Čižmár, Jo. – Morovics, M.T.: Mathematical Background of Cartography and Geodesy in the Eighteenth Century and Its Reflection in the Maps of Slovakia. In: Slovak Journal of Civil Engineering, Vol. X. 2002/1, Slovak University of Technology Bratislava, pp. 5-10.
- [2] Mitášová I. – Hájek, M.: Spatial Information on Samuel Mikovíni's Maps. In: Slovak Journal of Civil Engineering, Vol. X. 2002/1, Slovak University of Technology Bratislava, pp. 18-23.
- [3] Hájek, M. – Melicher, J. – Bartaloš, J.: Bratislava Meridian on Mikovíni's Maps. In: Slovak Journal of Civil Engineering, Vol. X. 2002/1, Slovak University of Technology Bratislava, pp. 24-30.
- [4] Čuláková, K.: Model of Georelief Based on a Triangulation Area. In: Kartografické listy No. 10, KS SR and Geographic Institute of the Slovak Academy of Sciences, Bratislava 2002, pp. 114-118.
- [5] Petrisková, B.: Analysis of Geoinformation Based on the Gaussian Mathematical Model. In: Kartografické listy No. 10, KS SR and Geographic Institute of the Slovak Academy of Sciences, Bratislava 2002, pp. 68-72.
- [6] Suchánová, D. – Hájek, M.: Spatial Analysis of the Boundaries of Bratislava, Nitra and Trenčín Counties. In: Kartografické listy No. 10, KS SR and Geographic Institute of the Slovak Academy of Sciences, Bratislava 2002, pp. 83-92.
- [7] Vavrínek, B. – Horecký, M. – Hájek, M.: Maps of Spatial Units Based on the Population and Housing Census 2001. In: Kartografické listy No. 10, KS SR and Geographic Institute of the Slovak Academy of Sciences, Bratislava 2002, pp. 107-113.
- [8] Vaľko, J.: Geodetic Reference Systems and Cartographic Projections in Geodetic Coordinate Systems of Slovakia. In: Geodetic Reference Systems (anniversary vol.). Bratislava, Department of Theoretical Geodesy of the Faculty of Civil Engineering 2002, pp. 61-68.
- [9] Čižmár, J. – Jurašík, R.: Cartometric Analysis of Maps as a Source of Data for GIS. In: Activities in Cartography 2002, Bratislava, KS SR and Geographic Institute of the Slovak Academy of Sciences, 2002, pp. 39-50.
- [10] Fencík, R.: Positioning Objects for GIS Using GPS. In: Pedagogické listy 9/2002: Geoinformation Model of Land and Its Cartographic Support. Department of Mapping and

- Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava, 2002, pp. 21-28.
- [11] Bartaloš, J.: Identifiers of Cadastre of Real Estate in Information Technologies. In: Pedagogické listy 9/2002: Geoinformation Model of Land and Its Cartographic Support. Department of Mapping and Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava, 2002, pp. 43-50.
- [12] Čižmár, J.: Cartographic Sources for Land Geo-Model Creation. In: Pedagogické listy 9/2002: Geoinformation Model of Land and Its Cartographic Support. Department of Mapping and Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava, 2002, pp. 43-50.
- [13] Jurašík, R.: Some Aspects of Quality Assurance of Geo-Data. In: Pedagogické listy 9/2002: Geoinformation Model of Land and Its Cartographic Support. Department of Mapping and Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava, 2002, pp. 43-50.
- [14] Vaľko, J.: Functions of Cartographic Projections from the GIS Point of View. In: Pedagogické listy 9/2002: Geoinformation Model of Land and Its Cartographic Support. Department of Mapping and Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava, 2002, pp. 43-50.
- [15] Petrisková, B.: Geographic Information Systems and Calculation Models of Soil Erosion. . In: Pedagogické listy 9/2002: Geoinformation Model of Land and Its Cartographic Support. Department of Mapping and Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava, 2002, pp. 43-50.
- [16] Potočárová, M. - Schváb, M.: Standards of Cadastre of Real Estate from the Information Systems Creating Point of View. In: Pedagogické listy 9/2002: Geoinformation Model of Land and Its Cartographic Support. Department of Mapping and Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava, 2002, pp. 43-50.
- [17] Geisse, E.: Land Consolidation as a Basis for Making Thematic Agricultural Map. In: Pedagogické listy 9/2002: Geoinformation Model of Land and Its Cartographic Support. Department of Mapping and Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava, 2002, pp. 43-50.
- [18] Geisse, R.: Digital Spatial Base for Agricultural Land Consolidation. . In: Pedagogické listy 9/2002: Geoinformation Model of Land and Its Cartographic Support. Department of Mapping and Land Consolidation of the Faculty of Civil Engineering and Cartographic Society of the Slovak Republic, Bratislava, 2002, pp. 43-50.
- [19] Hájek, M.: Tribute to Samuel Mikovíni in Cartography, Mining Surveying and Hydraulic Engineering. In: The 10th Slovak Geodetic Days (anniversary vol.). Bratislava, Science and Technical Society, "Geodézia Bratislava", 2002, pp. 63-70.

#### Contributions to Proceedings Abroad:

- [1] Geisse, R.: Plan of Technical and Ecological Measures in Land Consolidation. In: Sborník ze IV. odborné konference doktorského studia, Fakulta Stavební VUT, Brno, 2002, p.4.
- [2] Jurašík, R. – Petrisková, B.: Digital Land Model. Sborník ze IV. odborné konference doktorského studia, Fakulta Stavební VUT, Brno, 2002, p.4.

- [3] Hájek, M. – Čižmár, J. – Chalachanová, J. - Fencík, R.: Farm Management Using GIS Technology. In: E-mail Seminar of Cartography. Cartographic Education 2002, [http://www.uacg.acad.bg/UACEG\\_site/sem\\_geo/Seminar\\_of\\_Cartography.htm](http://www.uacg.acad.bg/UACEG_site/sem_geo/Seminar_of_Cartography.htm).

### **IX.3 Conferences**

- [1] International Symposium on Land Fragmentation and Land Consolidation in Central and Eastern European Countries, Munich, February 2002
- [2] The 4th Specialized Doctoral Study Conference, Brno, February 2002
- [3] Seminar on European Terrestrial Reference System 89 (ETRS-89) and Real Estate Cadastre, Žilina, March 2002
- [4] Seminar on Geographic Information, Terminology in ISO and CEN Norms, Bratislava, April 2002
- [5] Seminar on Creation and Use of a Multifunctional Real Estate Cadastre, Gabčíkovo, May 2002
- [6] Seminar on the National Map Series of Slovakia, Bratislava, June 2002
- [7] Conference on Military Land Information System and Practice, Banská Bystrica, October 2002
- [8] Seminar on Activities in Cartography 2002, Bratislava, October 2002
- [9] Seminar on Geoinformation Land Management and Its Cartographic Support, Bratislava, November 2002
- [10] Conference on Geographic Information Systems for Agriculture, Stará Lesná, November 2002
- [11] Seminar on Geodetic Reference Systems, Bratislava, November 2002
- [12] The 10th Geodetic Days Conference, Bratislava, December 2002