

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: 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
Cadastral 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
Realisation of Land-Consolidation	7	2	2	E. Geisse
Cartometry	8	2	2	J. Val'ko
Economy and Management of Geodesy and Cartography	10	2	2	J. Val'ko
Management of Geodetic Activities	6	1	2	J. Val'ko
Legal Regulations for Geodesy	10	0	2	E. Geisse

V. RESEARCH PROJECTS

1. Geoinformatic Management and Its Cartographic Support (2001-2003, J.Čižmár)
2. Modelling as a Part of Land Consolidation Design (1999-2001, E. Geisse)

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. Military Cartographic Institute, Harmanec
9. Military Topographic Institute, Banska Bystrica
10. Geographic Institute, Slovak Academy of Sciences, Bratislava
11. Cartographic Society of the Slovak Republic, 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
4. The Austrian Institute for Eastern and Southeastern Europe, Austria

VII. THESES

VII.1 Graduate Theses

No.	Student's name	Title	Supervisor
1.	J. Adamčíková	Reliability Model of Geo-Data in Informatic Technologies	Hájek
2.	E. Adamec	Distribution Plan for Emplacement and Tracing	Geisse
3.	J. Baláž	Valuation of Model for Evaluating Soil-Ecological Units and a Digital Terrain Model	Hájek
4.	I. Balonová	Ecological Arrangements in Land Consolidation Project	Geisse
5.	M. Cibulka	Map Sources for Design of Geographic Information Systems	Čížmár
6.	A. Drienovská	Design of Cartographic Projection of Australia for Geographic Purposes	Vaľko
7.	L. Galatová	Modeling New Organization of Territory in Course of Land Consolidation	Geisse
8.	J. Gondžúr	Digital Processing of Print Base of Thematic Map	Čížmár
9.	B. Hinca	Geographical Centre of Europe	Vaľko
10.	K. Hučková	Digital Processing of Survey Sketch for Designation of Laws for ŽSR Parcels	Bartaloš
11.	A. Just	Loxodromic and Orthodromic Routes from Bratislava to World Metropolis	Vaľko
12.	Š. Kajla	Testing Qualities of Geo-Model Generated from Maps	Hájek
13.	T. Kalmanová	Cartographic Projection of World Map for Geographic Purposes	Vaľko
14.	K. Kolínková	Structural Attributes in Basic GIS Source and Its Use	Hájek
15.	D. Kostra	Cartographic Formulation of Reality in Geoinformation Technologies	Čížmár
16.	K. Královičová	Analysis of Use of Map Functions and Digital Map Data	Hájek
17.	K. Magulová	Comparison of Accuracy of Vectorized Maps Before and After Transformation into S-JTSK	Bartaloš
18.	H. Molnár	JTSK : Genesis, Building and Calculations	Vaľko
19.	P. Nétry	Connection Between Survey Data File and File of Descriptive Information of Real Estate Cadastre	Bartaloš
20.	M. Obročníková	Historical Overview of Maps of the High Tatras	Vaľko
21.	M. Panyiková	Quality Assurance of Cadastral Maps	Bartaloš
22.	V. Pataj	Actualization of Digital Geo-Data	Hájek
23.	E. Stredňanská	Technical Arrangements in Land Consolidation Project	Geisse
24.	D. Suchánová	Geoinformation Analysis of Old Maps	Hájek

25	J. Šnajdárková	Orthodromes and Loxodromes from Sydney to World Metropolis	Val'ko
26	M. Števlík	Digital Processing of Survey Sketch	Bartaloš
27	B. Velčková	Modeling Technical Arrangement in Land Consolidation Project	Geisse
28	A. Zsidrová	Processing of Digital Cadastral Map	Bartaloš

IX. PUBLICATIONS

IX.1 Journals

Contributions to Proceedings in Slovakia:

- [1] Fencík, R.: Data Capture by Differential GPS for Geographic Information Systems. In: Slovak Journal of Civil Engineering, Volume IX. 2001/1-2, Slovak University of Technology Bratislava, pp. 38-43.
- [2] Hájek, M., Baricová, K.: Cartographic Interpretation of Maps from the Third Military Mapping, Slovak Journal of Civil Engineering, Volume IX. 2001/1-2, Slovak University of Technology Bratislava, pp. 44-49.
- [3] Čižmár, J.: Geoinformation Model of an Agricultural Region. In: Geodetický a kartografický obzor Vol. 47 (89) No. 8-9, pp. 249-252.
- [4] Geisse, E.: Education Process at the Faculty of Civil Engineering in the Geodesy and Cartography Department. In: Pozemkové úpravy – Information Bulletin of Section of Land Consolidation MP SR. Vol. 1, No.1/2001, pp. 5-6.
- [5] Hájek, M.: Cartographic Terminology. In: Spravodajca Kartografickej spoločnosti SR No.15/2001, p. 4.
- [6] Čižmár, J.: The 14th Cartographic Conference. In: Spravodajca Kartografickej spoločnosti SR No. 15/2001, p. 8.
- [7] Kusendová, D., Pravda, J., Hájek, M.: Bibliography of Slovak Cartographic Literature. In: Spravodajca Kartografickej spoločnosti SR No.15/2001, pp. 9-14.
- [8] Geisse, E.: Plan of Common and Public Measures and Arrangements. In: Pedagogické listy 8/2001: Land Consolidation within Ten Years, Department of Mapping and Land Consolidation and Austrian Institute for Eastern and Southeastern Europe, Bratislava, 2001, pp. 23-32.
- [9] Geisse, E.: Communication Arrangements in Land Consolidation. In: Pedagogické listy 8/2001: Land Consolidation within Ten Years, Department of Mapping and Land Consolidation and Austrian Institute for Eastern and Southeastern Europe, Bratislava, 2001, pp. 33-42.
- [10] Petrisková, B.: Digital Model for Solution to Land Consolidation Problem. In: Pedagogické listy 8/2001: Land Consolidation within Ten Years, Department of Mapping and Land Consolidation and Austrian Institute for Eastern and South-Eastern Europe, Bratislava, 2001, pp. 67-74.
- [11] Geisse, R.: Anti-Erosion Arrangements in Land Consolidation. In: Pedagogické listy 8/2001: Land Consolidation within Ten Years, Department of Mapping and Land Consolidation and Austrian Institute for Eastern and Southeastern Europe, Bratislava, 2001, pp. 91-96.
- [12] Geisse, R.: Water System Arrangements in Land Consolidation. In: Pedagogické listy 8/2001: Land Consolidation within Ten Years, Department of Mapping and Land

- Consolidation and Austrian Institute for Eastern and Southeastern Europe, Bratislava, 2001, pp. 43-50.
- [13] Geisse, R.: Recultivation Arrangements in Land Consolidation. In: *Pedagogické listy 8/2001: Land Consolidation within Ten Years*, Department of Mapping and Land Consolidation and Austrian Institute for Eastern and Southeastern Europe, Bratislava, 2001, pp. 97-98.
- [14] Geisse, R.: Ecological Arrangements in Land Consolidation. In: *Pedagogické listy 8/2001: Land Consolidation within Ten Years*, Department of Mapping and Land Consolidation and Austrian Institute for Eastern and Southeastern Europe, Bratislava, 2001, pp. 99-104.
- [15] Jurašík, R., Schváb, M.: Problems of Anti-Erosion Arrangements Induced by Land Consolidation. In: *Pedagogické listy 8/2001: Land Consolidation within Ten Years*, Department of Mapping and Land Consolidation and Austrian Institute for Eastern and Southeastern Europe, Bratislava, 2001, pp. 111-116.
- [16] Hájek, M., Královičová, K., Adamčíková, J.: Functions and Quality of Digital Base of Geoinformation Infrastructure in Permanent Sustainable Development of a Rural Country. In: *Pedagogické listy 8/2001: Land Consolidation within Ten Years*, Department of Mapping and Land Consolidation and Austrian Institute for Eastern and Southeastern Europe, Bratislava, 2001, pp. 117-126.
- [17] Čižmár, J.: Development of Cartographic Interpretation of Agricultural Use of the Land. In: *Pedagogické listy 8/2001: Land Consolidation within Ten Years*, Department of Mapping and Land Consolidation and Austrian Institute for Eastern and Southeastern Europe, Bratislava, 2001, pp. 185-194.
- [18] V Hájek, M., Mitášová, I.: Meta-Language and Creation of Terms in Cartography and Geoinformatics. In: *Cartographic Terminology in Science, Administration, Education and Practice (anniversary vol.)*, Cartographic Society of the Slovak Republic, Faculty of Civil Engineering of STU and Geographic Institute of Slovak Academy of Sciences, Bratislava, 2001, pp. 43-50.
- [19] Čižmár, Ja., Čižmár, Jo.: Connection Between Mathematical and Cartographical Terminology. In: *Cartographic Terminology in Science, Administration, Education and Practice (anniversary vol.)*, Cartographic Society of the Slovak Republic, Faculty of Civil Engineering of STU and Geographic Institute of Slovak Academy of Sciences, Bratislava, pp. 63-70.
- [20] Geisse, E.: Education of Land Consolidation in the Slovak Republic. In: *Land Consolidation in Slovakia*, Ministry of Agriculture of the SR, Association of Surveyors and Cartographers, Slovak Union of Surveyors, Košice, 2001, pp. 25-30.
- [21] Hájek, M., Hulina, M.: Cartographic Analysis of Kořístka's Map of the High Tatras. In: *Historical Maps (anniversary vol.)*, Cartographic Society of the Slovak Republic, Slovak National Archives, Department of Mapping and Land Consolidation, Institute of Geodesy and Cartography Bratislava, 2001, pp. 97-106.
- [22] Vavrínek, B., Hájek, M., Horecký, M.: Map History of Census of Inhabitants, Houses and Flats in Slovakia. In: *Historical Maps (anniversary vol.)*, Cartographic Society of the Slovak Republic, Slovak National Archives, Department of Mapping and Land Consolidation, Institute of Geodesy and Cartography Bratislava, 2001, pp. 187-196.
- [23] Hájek, M., Benda, M., Kolínková, K.: Input and Required Spatial Data of State Administration in an Information System. In: *Geodesy and Cartography Assignments in the Creation and Administration of "ZB GIS"*, Trenčín, Institute of Geodesy and Cartography Bratislava, 2001, pp. 87-96.
- [24] Bartaloš, J., Fencík, R., Hájek, M.: LIME Project and Its Use in the Slovak Republic. In: *LIME – Land Information Management for Executives*. Department of Mapping and Land Consolidation, Bratislava, 2001, p. 2.

Contributions to Proceedings Abroad:

- [1] Čižmár, J., Hájek, M., Chalachanová, J., Mitášová, I.: Education in Cartography and Geoinformatics at STU Bratislava. E-Mail Cartography Seminar 2000-2001, Sofia, pp. 83-92.
- [2] Hudecová, E., Hájek, M.: National Integration of Spatial Databases. In: Role Assignment of Cartography in a Geoinformation World anniversary volume and CD ROM, West-Czech University, Cartographic Society of the Czech Republic, Plzeň, 2001, p. 19.
- [3] Hájek, M., Chalachanová, J., Čerňanský, J.: Integration of Spatial Data Sources for an Agricultural Database. In: GI in Europe, Integrative, Interoperable, Interactive. Association of Geographic Information Laboratories in Europe, Brno, 2001, pp. 760-767.
- [4] Mitášová, I., Fencík, R., Kožuch, M.: Updating the Position of Objects in an Agricultural Geoinformation System, In: GI in Europe, Integrative, Interoperable, Interactive. Association of Geographic Information Laboratories in Europe, Brno, 2001, pp. 768-775.
- [5] Hájek, M.: Digital Base of Geoinformation Structure of the Land. In: Land Planning in the 21st Century (anniversary vol.), Institute of Land Ecology of Slovak Academy of Sciences, Smolenice, 2001, pp. 100-109.
- [6] Geisse, E., Geisse, R.: Modeling Processes of Land Consolidation. In: Land Planning in the 21st Century (anniversary vol.), Institute of Land Ecology of Slovak Academy of Sciences, Smolenice, 2001, pp. 110-116.

IX.3 Conferences

- [1] Seminar on the Enhancement of Education in the Section of Real Estate Cadastre and Land Consolidation, Šaľa, February 2001
- [2] Seminar on Cartographic Terminology in Science, Administration, Education and Practice, Bratislava, March 2001
- [3] Conference on Historical Maps, Bratislava, April 2001
- [4] Seminar on Model of Geo-Objects of the Land Using Real Estate Cadastre, Gabčíkovo, May 2001
- [5] International LIME Project Seminar, Bratislava, May 2001
- [6] Symposium on Geodesy and Cartography Assignments in the Creation and Administration of "ZB GIS", Trenčín, August 2001
- [7] Seminar on Land Consolidation in Slovakia, Košice, September 2001
- [8] 14th Cartographic Conference on Role of Cartography in a Geoinformation World, Plzeň, September 2001
- [9] International Conference on Land Planning in the 21st Century, Smolenice, October 2001
- [10] International Conference on Land Consolidation within Ten Years, Bratislava, October 2001