

DEPARTMENT OF GEOTECHNICS

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I. STAFF

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II. EQUIPMENT

II.1 Teaching and Research Laboratories

- mechanical laboratory scales
- digital technical scales
- sieve series
- Cassagrande liquid limit apparatus
- dissectors
- odometers
- laboratory ovens
- motorised direct shear machines
- hand-operated laboratory vane tester
- triaxial apparatus
- motorised Proctor compaction machine

II.2 Special Measuring Instruments and Computers

For in-situ measurements:

underground water flow by tracer methods,
bearing capacity, stress and strain for special foundations.
records with guide unit.

15x PC 586, 6x PC 486, 8x PC 386, with special software for stability, capacity and inflow porous media in connection with the ANSYS network.

III. TEACHING

The Department of Geotechnics is an interdisciplinary department which teaches all sections of the Civil Engineering Faculty. Its main subjects are geology, engineering geology, hydrogeology, soil mechanics, rock mechanics, foundations, underground structures, dams, and reservoirs. The system of eligible subjects makes special preparation possible for the solution of geotechnical problems in environmental, building, underground, transport, and water construction.

III.1 Graduate Study

Subject	Semester	Hours per Week		Lecturer
		Lectures	Seminars	
Geology	1	2 - 2		Čabalová
Geology	1	2 - 2		Baliak
Geology	1	2 - 2		Vámoš
Geology and Geomorphology	1	2 - 2		Baliak
Soil Mechanics	4	3 - 2		Kuzma
Soil Mechanics	4	3 - 2		Kuzma

Soil Mechanics and Foundations	5	2 - 2	Hulla Turček
Building Foundations	5	3 - 2	Turček
Building Foundations and Underground Structures	5	3 - 2	Hulla Klepsatel
Engineering Geology and Rock Mechanics	6	3 - 2	Malgot Klepsatel
Properties of Rocks and Soils	7	2 - 2	Kuzma
Water Reservoirs and Dams	7	3 - 2	Lukáč
Underground Constructions	7	2 - 2	Klepsatel
Plane and Deep Foundations	8	2 - 1	Hulla
Soil Construction	8	2 - 2	Szabó
Optional Subjects			
Engineering Geology and Rock Mechanics	8	2 - 2	Klepsatel
Recommended Subjects			
Dam Design	9	2 - 2	Lukáč, Bednárová
Foundation of Water Structures	9	2 - 2	Hulla
Selected Topics in Soil Mechanics	9	2 - 2	Kuzma
Complex Dam Projects	9	0 - 3	Bednárová
Diploma Seminar	9	0 - 3	Kuzma
Special Engineering Geology and Hydrogeology	9	2 - 2	Malgot
Soil Properties	9	2 - 2	Kuzma
Geomechanics	9	2 - 2	Kuzma
Optional Subjects			
Construction Ditches	9	2 - 2	Turček
Water Dams	9	2 - 2	Lukáč, Bednárová
Interaction of Water Structures and the Environment	9	0 - 3	Lukáč
Numerical Modelling in the Design of Water Dams	9	2 - 2	Bednárová, Grambličková
Geotechnical Reconstruction and Remedial Measures	9	2 - 2	Turček Klepsatel

V. RESEARCH PROJECTS

1. Geotechnical Problems of a Flooded Area (J. Hulla)
2. Soil - Structure Interaction (J. Kuzma)
3. Dam Safety Analysis in Slovakia Considering Their Age and Significance (M. Lukáč)
4. Evaluation of the Effect of a Landslide on an Engineering Structure in Slovakia (J. Malgot)
5. Collapsibility of Particular Materials (M. Masarovičová)
6. Design Optimization of Geotechnical Structures (P. Turček)

VI. COOPERATION

VI.1. Cooperation in Slovakia

1. Department of Engineering Geology, UK, Bratislava
2. Department of Hydrogeology, UK, Bratislava
3. Department of Geotechnics, VŠDS, Žilina
4. Institute of Geotechnics, SAV, Košice
5. Department of Geotechnics, TU, Košice

VI.2 International Cooperation

1. CTU Prague, Czech Republic
2. University of Ostrava, Czech Republic
3. TU Brno, Czech Republic
4. Czech Academy of Sciences, Czech Republic
5. UK Prague, Czech Republic
6. TU Budapest, Hungary
7. University of Alberta, Canada
8. University of Freiburg, Germany
9. TU Vienna, Austria
10. TU Graz, Austria
11. TU Innsbruck, Austria
12. ETH, Zürich, Switzerland
13. Mernöki Kamara, Budapest, Hungary
14. BPI Minsk, Belarus

VI.2.1 Visitors to the Department

- * Broža, V., CVUT Prague, Czech Republic, 2 x 2 days
- * Doležalová, M., Dolexpert s.r.o., Prague, Czech Republic, 2 days
- * Fedá J., AVCR, UTAM Prague, Czech Republic, 2 days
- * Herle V., AVCR, UTAM Prague, Czech Republic, 2 days
- * Lamboj L., CVUT Prague, Czech Republic, 2 x 2 days
- * Nikitenko M.I., BPI Minsk, Belarus, 5 days
- * Patera, A., CVUT Prague, Czech Republic, 2 days
- * Raclavský, J. CZ STT Prague, Czech Republic, 2 x 2 days
- * Škopek, J., PF UK Prague, Czech Republic, 2 days
- * Weiglová K., VUT Brno, Czech Republic, 2 days

VI.2.2 Visits of Staff Members and Postgraduate Students to Foreign Institutions

- * Baliak, F.: Czech Republic, 2 x 2 days; Austria, 2 days
- * Bednářová, M.: Czech Republic, 2 days; Germany, 7 days
- * Grambličková, D.: Czech Republic, 2 days; Germany, 7 days
- * Hulla, J.: Czech Republic, 3 x 2 days; Austria, 2 x 2 days; Germany, 3 days
- * Chabroňová, J.: Czech Republic, 2 days
- * Kopecký, M.: Czech Republic, 2 days; Denmark, 8 days

- * Ledényiová, T.: Czech Republic, 2 x 2 days
- * Lukáč, M.: Czech Republic, 4 x 2 days; Germany, 8 days
- * Malgot, J.: Czech Republic, 2 days,
- * Masarovičová, M.: Czech Republic, 2 x 3 days, 3 x 2 days; Austria, 5 days
- * Ravinger, R.: Czech Republic, 2 x 3 days, 2 days
- * Solčiansky, R. Denmark, 8 days
- * Szabó, R.: Hungary, 3 days
- * Štefanek, J.: Denmark, 8 days; Austria, 2 days
- * Turček, P.: Czech Republic, 5 x 2 days; Germany, 4 days
- * Zrubec, R.: England, 180 days

VII. THESES

VII.1. Graduate Theses

No.	Student's name	Title	Supervisor
1.	Peter Baláž	Hypothetical Resolution of Tramway Tunnel Reconstruction under Castle	F. Klepsatel
2.	Katarína Dedinská	Design of a Railway Embankment Extension under Difficult Conditions	P. Turček
3.	Richard Gombárik	Rock Permeability and Conditional Effect of VTS Realization	M. Bednárová
4.	Daniel Harman	Sheet-Pile Wall Stability Arbitration	J. Kuzma
5.	Peter Kaladžiev	Settlement Calculation of RU RAO Subsoil	J. Kuzma
6.	Beáta Machajdová	Suitability of Application of DEST Classification System for Tunnel Design	J. Chabroňová
7.	Marián Mareček	Hypothetical Design of the Highway at Soroška	F. Klepsatel
8.	Ján Paukov	Filtration Mode Assessment While Verifying Operation of VD Turcek	M. Bednárová
9.	Peter Straka	Extension of Temporary Dump for Spent Fuel at Jaslovské Bohunice	J. Kuzma
10.	Blanka Škriniarová	Assessment of the Construction Effects of VD Gajary on the Landscape, Environment and Groundwater	J. Malgot
11.	Marcela Tomková	Inspection Gallery for Traffic Tunnels - Yes or No	J. Chabroňová
12.	Ľubica Užovičová	Renovation of Staromestská Street in Bratislava	P. Turček
13.	Peter Varsík	Geotechnical Problems of an Ash Admixture System	M. Masarovičová
14.	Martina Zacharová	Reconstruction of the Anti-Seepage Arrangement at VD Klenovec	M. Bednárová

VIII. OTHER ACTIVITIES

VIII.1 Special Lectures

- [1] HULLA, J.: Geotechnical Problems in Flooded Regions. Professor's Lectures, SvF STU, Bratislava 2001 (in Slovak)

- [2] SZABÓ, R.: Experience with Gabion Constructions in Slovakia. Lecture at Conference on Hazards in Geotechnical Engineering. Paks 2001 (in Hungarian)
- [3] SZABÓ, R.: Design and Building of Gabion Constructions. Lecture at Conference on Hazards in Geotechnical Engineering. Paks 2001 (in Hungarian)

VIII.2 Commercial Activities of Firms and Institutions

- * Spoločnosť pre špeciálne stavby s.r.o., Bratislava
- * Vodohospodárska výstavba š.p., Bratislava
- * Atómové elektrárne š.p., Jaslovské Bohunice
- * Národná Banka Slovenska, Bratislava
- * VÚIS - vodovody a kanalizácie s.r.o., Bratislava
- * Váhostav a.s., Žilina
- * Povodie Váhu š.p., Piešťany
- * Renos a.s., Bratislava
- * Keramoprojekt a.s., Bratislava
- * Solhydro s.r.o., Bratislava
- * Slovenský ústav technického normovania, Bratislava
- * Geos a.s., Bratislava
- * Povodie Bodrogu a Hornádu, Košice
- * Envi-Geo s.r.o., Banská Bystrica
- * Hydrotechnológia s.r.o., Bratislava
- * Hydroconsult š.p., Bratislava
- * Geologická služba Slovenska, Bratislava
- * HIGRAPOŠ s.r.o., Pezinok
- * INGEO a.s., Žilina
- * HYDRO G.E.R. s.r.o., Banská Bystrica
- * SE a.s. Elektrárne Nováky o.z., Zemianske Kostolany
- * Stavospol. s.r.o., Brno
- * DVORAK - Geotechnika, s.r.o., Bratislava

IX. PUBLICATIONS

IX.1 Journals

Scientific Papers in Slovak Journals:

- [1] BEDNÁROVÁ, E. - GRAMBLIČKOVÁ, D.: Some Aspects of Water Protection Sources Using a Geotechnical Arrangement. Inžinierske stavby, Vol. 49, 2001, No. 1, pp. 28-33 (in Slovak)
- [2] HULLA, J. - HUMMEL, J.: Original State and Additional Sealing of Dilatation Joints of Polyurethane Resin Navigation Chambers. Inžinierske stavby, Vol. 49, 2001, Nos. 7-8, pp. 218-225 (in Slovak)
- [3] HULLA, J.: Stability, Failure and Repair of Hydroinsulations of Underground Structures. Stavba, Vol. 4, 2001, No. 10, pp. 47-49 (in Slovak)
- [4] KAMENSKÝ, J. - LUKÁČ, M.: Effect of Water Structures on the Environment. The 4th Conference (with international participation) on Environmental Aspects of the Design and Operation of Basins and Dams. Vodohospodársky spravodajca, 2001 (in Slovak)

- [5] KLEPSATEL, F. - LEDÉNYIOVÁ, T.: Construction of Underground Lines by the Trenchless Method. Stavba, Vol. 4, 2001, No. 1, pp. 40 – 43 (in Slovak)
- [6] KLEPSATEL, F. - LEDÉNYIOVÁ, T.: Construction of Road Tunnels in Norway. Inžinierske stavby, Vol. 49, 2001, No. 1, pp. 36 – 41 (in Slovak)
- [7] KLEPSATEL, F. - ŠAMOVÁ, M.: Trenchless Reconstruction of Underground Lines. Stavba, Vol. 4, 2001, No. 3, pp. 40 – 43 (in Slovak)
- [8] KLEPSATEL, F. - CHABROŇOVÁ, J.: Tunnels on Surface Communications Lines. Stavebná ročenka, JAGA 2001, pp. 123-127 (in Slovak)
- [9] KLEPSATEL, F. - ŠAMOVÁ, M.: Tunnels on a High - Speed Railway Line in Italy. Inžinierske stavby, Vol. 49, 2001, Nos. 5-6, pp. 187-190 (in Slovak)
- [10] LEDÉNYIOVÁ, T.: Conference on the Underground Building Industry, 7-9 October 2001 in Bojnice. Inžinierske stavby, Vol. 49, 2001, No. 12, pp. 48-49 (in Slovak)
- [11] RAVINGER, R.: Application of Geotextiles Made of Woven Propylene. Stavebný podnikateľ, Vol. 11, 2001, No. 5, pp. 10 – 11 (in Slovak)
- [12] SÝKORA, P. - TURČEK, P. - RAVINGER, R.: Stability Aspects of the Hodruša-Hámre Sludge Bed. Projekt a stavba, Vol. 3, 2001, No. 5, pp. 28 - 30 (in Slovak)
- [13] TURČEK, P.: Foundations of Gravel Piers. Projekt a stavba, Vol. 3, 2001, No. 5, pp. 28 - 30 (in Slovak)

Scientific Papers Abroad (Other Journals):

- [1] HULLA, J.: The Fifth Slovak Geotechnical Conference. Geotechnika, Vol. 4, 2001, p. 28 (in Slovak)
- [2] LUKÁČ, M. - POHANIČOVÁ, J.: Concrete Dams in Slovakia and Statics, City Planning, Architectural and Ecological Aspects. Beton, Vol. 4, 2001, No. 4, p. 8 (in Slovak)

Contributions to Proceedings in Slovak:

- [1] BALIAK, F. - MALGOT, J. - KOPECKÝ, M.: Investigation and Design of Landslide Reconstruction on State Road No. III/5432 in Gregorovce. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 53-60 (in Slovak)
- [2] BALIAK, F. - MALGOT, J.: Effect of Landslides on the Natural Environment and Building Activity in Slovakia. In: Proceedings of the 2nd Slovak Conference (with international participation) on Geology and the Environment, Bratislava 2001, pp. 19-22 (in Slovak)
- [3] BALIAK, F. - MALGOT, J.: Effect of Interactions Between Landslides and Water Structures on the Creation and Protection of the Environment. In: Proceedings of the 4th Conference (with international participation) on Environmental Aspects of the Design and Operation of Basins and Dams. Podbánske 2001, pp. 55-60 (in Slovak)
- [4] BEDNÁROVÁ, E. - GRAMBLIČKOVÁ, D. - BAČIAK, P.: Predicted and Actual Parameters of Filtration Motion at the Turček Hydro-Engineering Structure. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 415 – 422 (in Slovak)
- [5] BEDNÁROVÁ, E. - GRAMBLIČKOVÁ, D.: Improvements in the Protection of an Embankment. In: Proceedings of the 4th Conference (with international participation) on Environmental Aspects of the Design and Operation of Basins and Dams. Podbánske 2001, pp. 29-34 (in Slovak)
- [6] GRAMBLIČKOVÁ, D. - BEDNÁROVÁ, E. - KOŠKOVÁ, M. - BAKALJAROVÁ, M.: Comparison Between Expected and Measured Deformation Values at the Málinec Dam.

- In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 423 – 429 (in Slovak)
- [7] HRUŠTINEC, Ľ. - KUZMA, J.: Input Analysis of Geotechnical Parameters of Subsoil for Stability of 125m High Chimney. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 145-152 (in Slovak)
- [8] HULLA, J.: Pile Foundations in Flooded Regions. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 269-276 (in Slovak)
- [9] HULLA, J.: Dilatometric Tests. In: Proceedings of the Foundations 2001 Conference. Stará Lesná 2001, pp. 27-32 (in Slovak)
- [10] HULLA, J.: Erosion, Scouring and Piping in Flooded Regions. In: Environmental Problems of the Design and Operation of Basins and Dams. Bratislava 2001, pp. 29-34 (in Slovak)
- [11] HULLA, J.: Compression Characteristics Obtained When Deepening Foundation Excavations. In: Proceedings of the International Foundations 2001 Conference. Stará Lesná 2001, pp. 33-38 (in Slovak)
- [12] CHABROŇOVÁ, J.: Application Ability of the DEST Classification System for Tunnel Design. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 403 – 408 (in Slovak)
- [13] KLEPSATEL, F. - CHABROŇOVÁ, J.: Tunnels on Surface Communications Routes. In: Proceedings of the 8th International MOBILITA 2001 Conference. Bratislava 2001, pp. 173 – 178 (in English)
- [14] KLEPSATEL, F. - LEDÉNYIOVÁ, T.: Assuming the Use of TBM in the Construction of Highway Tunnels. In: Proceedings of the Conference on Mining Structures. Prievidza 2001, pp. 181-185 (in Slovak)
- [15] KLEPSATEL, F. - LEDÉNYIOVÁ, T.: Developmental Trends in Tunnelling Using TBM. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 361 – 365 (in Slovak)
- [16] KLEPSATEL, F.: “Prievidza Building Societies” and Their Contributions to Trenchless Technology in Municipal Tunnel Construction. In: Proceedings of the Conference on Mining Structures. Prievidza 2001, pp. 185-189 (in Slovak)
- [17] KLEPSATEL, F.: Reliability of Experience Gained at the Railway Tunnel at Jabloňovo in Preparation of Highway Tunnel Construction under Soroška Saddleback. In: Proceedings of the 1st Conference on Prospects of Developing the Gemer Region and Problems Encountered. Rožňava 2001, p. 3 (in Slovak)
- [18] KOPECKÝ, M. - BALIAK, F. - MALGOT, J.: Engineering-Geological Evaluation of an Alternative Study of the D65 Highway at Nitra - Malanta. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 47-52 (in Slovak)
- [19] KOPECKÝ, M. - ILKANIČ, A.: Engineering-Geological Investigation and Landslide Reconstruction of a Gas Line. In: Proceedings of the 2nd Slovak Conference (with international participation) on Geology and the Environment. Bratislava 2001, pp. 34-36 (in Slovak)
- [20] KUZMA, J. - HRUŠTINEC, Ľ. - SZABÓ, R.: Effect of Grouting on Changes in the Mechanical Properties of Non-Cohesive Soils. In: Proceedings of the 4th Conference (with international participation) on Environmental Aspects of the Design and Operation of Basins and Dams. Podbánske 2001, pp. 41-46 (in Slovak)
- [21] LUKÁČ, M.: Interactive Aspects of Water Structures with the Environment in Designing and Operating Basins and Dams. In: Proceedings of the 4th Conference (with international

- participation) on Environmental Aspects of the Design and Operation of Basins and Dams. Podbánske 2001, pp. 9-14 (in Slovak)
- [22] LUKÁČ, M.: The Utilisation of Water Supply Reservoirs in Slovakia. In: Proceedings of the International Conference: Water is Life – Take Care of It. Bratislava 2001, pp. 226-231 (in English)
- [23] MALGOT, J. - BALIAK, F. - SOLČIANSKY, R.: Geotechnical Problems of the Southern Highway Bypass round Prešov. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 39-46 (in Slovak)
- [24] MALGOT, J. - BALIAK, F.: Utilising Photogrammetric Data in Engineering Geology. In: Proceedings of International Conference on Geodesy, Photogrammetry and Engineering Geodesy in the Information Society. Bratislava, 2001, pp. 105-112 (in Slovak)
- [25] MALGOT, J. - BALIAK, F.: Landslide Vulnerability. In: Proceedings of 2nd Slovak Conference (with international participation) on Geology and the Environment. Bratislava 2001, pp. 12-15 (in Slovak)
- [26] MALGOT, J. - ŠIMEKOVÁ, J. - ABRAHÁM, P.: Methodology of Compilation of Atlas of Slope Stability Maps of the Slovak Republic. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 77-84 (in Slovak)
- [27] RAVINGER, R.: Estimated Values of Typical Foundation Soils. In: Proceedings of the 4th Conference on Input Characteristics for Geotechnical Calculations. Stará Lesná 2001 (in Slovak)
- [28] RAVINGER, R.: Specific Problems in Constructing Engineering Landfills. In: Proceedings of International TOP 2001 Conference. Častá – Papiernička 2001 (in Slovak)
- [29] RAVINGER, R.: Technical Conditions for Work with Geosynthetic Products. In: Proceedings of Conference on Geotextiles in Traffic Construction. Žilina 2001 (in Slovak)
- [30] RAVINGER, R.: Foundations of Low-Rise Houses under Difficult Subsoil Conditions. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 247 – 252 (in Slovak)
- [31] ŠAMO VÁ, M.: The Enlargement of an Excavated Tunnel Profile After Tunnelling with Explosives. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 381-388 (in Slovak)
- [32] ŠTEFANEK, J. - SÚLOVSKÁ, M.: Changes in Soil Properties of Flooded Regions. In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 141-144 (in Slovak)
- [33] TURČEK, P.: Geotechnical Design and Soil Properties. In: Proceedings of the International Foundations 2001 Conference. Stará Lesná 2001, pp. 51 - 56 (in Slovak)
- [34] TURČEK, P.: Eurocode 7 : Geotechnical Design. In: Eurocodes: Preliminary Technical Rules for Structures. Bratislava 2001, pp. 199-214 (in Slovak)
- [35] TURČEK, P.: Design of Geoplate Supported by Piles. In: Proceedings of Conference on Geotextiles in Traffic Construction. Žilina 2001, pp. 75 - 80 (in Slovak)
- [36] TURČEK, P.: Heavily Loaded Floors on Subsoil with Low-Bearing Capacity In: Proceedings of the 5th Slovak Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, pp. 205 - 208 (in Slovak)

Contributions to Proceedings Abroad:

- [1] BALIAK, F. - MALGOT, J.: Geotechnical Stabilisation Problems of Some Medieval Castles in Slovakia. In: Proceedings of the 2nd International Conference on Studies of Ancient Structures. Istanbul 2001 (in English)

- [2] BEDNÁROVÁ, E. - GRAMBLIČKOVÁ, D.: Safety of Protective Embankments. In: Proceedings of the 5th ICOLD European Symposium. Geiranger 2001, pp. 57-64 (in English)
- [3] HRUŠTINEC, Ľ. - KUZMA, J. - SZABÓ, R.: Numerical Modelling of a Soil-Structure Interaction Contact Task. In: Proceedings of 9th ANSYS Users Meeting. Třešť 2001, p. 6 (in Slovak)
- [4] HRUŠTINEC, Ľ. - KUZMA, J.: Selected Analytical and Numerical Calculation Methods in Solving Geotechnical Problems. In: Proceedings of International Foundations 2001 Conference. Brno 2001, pp. 102-106 (in Slovak)
- [5] HULLA, J.: Hydroinsulations – Risk Elements of Constructions. In Proceedings of International Foundations 2001 Conference. Brno 2001, pp. 218-222 (in Slovak)
- [6] HULLA, J. - SLÁŠŤAN, P. - BLANÁR, J. - HNILICA, D.: Hydroinsulation Problems of Underground Structures and Possible Solution. In: Proceedings of Conference on Hardening and Jointing of Rocks and Building Structures at the Beginning of the 21st Century. Ostrava 2001, pp. 167-173 (in Slovak)
- [7] HULLA, J. - SÚLOVSKÁ, M. - ŠTEFANEK, J.: In-Situ Measurements of Groundwater Flow Characteristics. In: Proceedings of International Conference on In-Situ Measurements of Soil Properties and Case Histories. Bali 2001, pp. 269-275 (in English)
- [8] CHABROŇOVÁ, J. - LEDÉNYIOVÁ, T.: Evaluation of Tunnel Geotechnical Survey with DEST System. In: Proceedings of Conference on Geotechnical Field Methods. Ústí nad Labem 2001, pp. 17 – 22 (in Slovak)
- [9] KLEPSATEL, F.: Historical Development of Trenchless Methods of Underground Pipeline Construction. In: Proceedings of 19th International “NO-DIG” Conference. Prague 2001, p. 22 (in English)
- [10] LUKÁČ, M. Sr. - ABAFFY, D. Sr. - BEDNÁROVÁ, E. - LUKÁČ, M. Jr.: Dam Construction in Slovakia in the Twentieth Century. In: Proceedings of International Workshop and Annual Meeting. Dresden 2001, pp. 245-255 (in English)
- [11] LUKÁČ, M. Sr. - ABAFFY, D. Sr. - LUKÁČ, M. Jr.: Inspection of Safety of Water Management Projects in Slovakia. In: Proceedings of ICOLD European Symposium on Dams in a European Context. Trondheim 2001, pp. 231-237 (in English)
- [12] LUKÁČ, M. Sr. - LUKÁČ, M. Jr.: Extreme Flooding in the Mala Svinka Basin in 1998: Causes, Consequences and Measures. In: Proceedings of the 19th ICID Regional European Conference on Sustainable Land and Water. Prague, 2001, p. 4 (in English)
- [13] LUKÁČ, M. Sr. - LUKÁČ, M. Jr.: Some Risks of Retentive Area Design and Actual Operations in Slovakia. In: Proceedings of the Workshop on Floods and Extreme Hydrological Phenomena. Prague 2001, pp. 259-262 (in Slovak)
- [14] MASAROVÍČOVÁ, M. - JESENÁK, J.: Neogenic Clays - Risky Foundation Soils. In: Proceedings of International Foundations 2001 Conference. Brno 2001, pp. 18-22 (in Slovak)
- [15] MASAROVÍČOVÁ, M. - SLÁVIK, I. - JESENÁK, J.: Geotechnical Risks in a Dislodging Operation. In: Proceedings of International Foundations 2001 Conference. Brno 2001, pp. 255-259 (in Slovak)
- [16] RACLAVSKÝ, J. - CHABROŇOVÁ, J.: Project V4: Effective Application of Trenchless Methods for Construction and Reconstruction of Underground Lines. In: Proceedings of the 19th International NO-DIG Conference. Prague 2001 (in English)
- [17] RAVINGER, R. - TURČEK, P.: Filling Station Reconstruction. In: Proceedings of International Foundations 2001 Conference. Brno 2001, pp. 208 – 212 (in Slovak)
- [18] SLÁVIK, I. - MASAROVÍČOVÁ, M. - JESENÁK, J.: Experimental Research on the Potential for Liquefying Ash. In: Proceedings of Conference on Geotechnical Field Methods. Ústí nad Labem 2001, pp. 59-66 (in Slovak)

- [19] SZABÓ, R. - KUZMA, J.: Quality Aspects of an Engineering-Geological Investigation of a Geotechnical Proposal. In: Proceedings of International Foundations 2001 Conference. Brno 2001, pp. 52-55 (in Slovak)
- [20] TURČEK, P. - RAVINGER, R.: Rock Anchor Testing. In: Proceedings of Conference on Geotechnical Field Methods. Ústí nad Labem 2001, pp. 29 - 35 (in Slovak)
- [21] TURČEK, P.: Soil Improvement. In: Proceedings of Conference on Geotechnical Reconstruction of a Building Foundation. Minsk 2001, pp. 27 – 61 (in Russian)

IX.2 Books and Textbooks

- * HULLA, J.: Sealing Elements of Foundation Excavations. Groundwater Protection Principles of Deep Foundation Excavations and Structures. In: NIKITENKO, M.I. (ed.), Geotechnical Reconstruction of a Building Foundation. Minsk 2001, pp. 45-49, pp. 81-82 (in Russian)
- * KLEPSATEL, F. - BALIAK, F. - MALGOT, J. - KELEŠI, J. - FRANKOVSKÝ, M.: Traffic Tunnel Construction in Rock and Part-Rock. Part 2, Geological Investigation for TBM Use in Driving Highway Tunnels. Bratislava 2001 (in Slovak)
- * KLEPSATEL, F. - TURČEK, P. - KAPUSTA, J.: Traffic Tunnel Construction in Rock and Part-Rock. Part 1, Conventional Methods of Construction. Bratislava 2001 (in Slovak)
- * KLEPSATEL, F.: Construction and Reconstruction of an Underground Municipal Structure. In: NIKITENKO, M.I. (ed.) - Geotechnical Reconstruction of a Building Foundation. Minsk 2001, pp. 88-101 (in Russian)
- * KUBÍK, I. - TURČEK, P.: Portals. Distance Education Project: Road and Railway Tunnels. Žilina 2001, p. 38 (in Slovak)
- * LUKÁČ, M. - BEDNÁROVÁ, E.: Basins and Dams. Bratislava 2001, p. 330 (in Slovak)
- * LUKÁČ, M.: Design and Operation Problems of Basins and Dams – Selected Articles. Bratislava 2001, p. 138 (in Slovak)
- * LUKÁČ, M.: Technical Monument to the "Vysegrad Four". Prague 2001, p. 182 (in Slovak, Czech, Polish, Hungarian)
- * MALGOT, J. - BALIAK, F.: Engineering-Geological Investigation: Principles of Building Subsoil and Geotechnical Reasons for Its Failure. Part 2, Bratislava 2001, pp. 31-38 (in Slovak)
- * ŠTEFANEK, J.: Hydrostructures in Slovakia. Bratislava 2001, p. 23 (in Slovak)

IX.3 Conferences

- [1] BALIAK, F.: The 5th Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, Organising Committee.
- [2] BALIAK, F.: The 2nd Slovak Conference (with international participation) on Geology and the Environment. Bratislava 2001, Organising Committee.
- [3] HULLA, J.: The 5th Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, Scientific Grant.
- [4] HULLA, J.: The 4th Foundations 2001 Conference (with international participation). Stará Lesná 2001, Scientific Grant.
- [5] HULLA, J.: International Foundations 2001 Conference. Brno 2001, Czech Republic, Scientific Grant.
- [6] KLEPSATEL, F.: The 5th Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, Organising Committee.
- [7] KLEPSATEL, F.: 19th International NO-DIG Conference and Exhibition: Increase in Worldwide Trenchless Technology, Prague 2001, Czech Republic, Scientific Grant.

- [8] LUKÁČ, M.: International Conference: “Water is Life – Take Care of It”. Bratislava 2001, Scientific Grant.
- [9] MALGOT, F.: The 2nd Slovak Conference (with international participation) on Geology and the Environment. Bratislava 2001, Organising Committee.
- [10] MASAROVÍČOVÁ, M.: International Foundations 2001 Conference. Brno 2001, Czech Republic, Organising Committee.
- [11] TURČEK, P.: The 5th Geotechnical Conference on Optimizing Geotechnical Structures. Bratislava 2001, Scientific Grant.
- [12] TURČEK, P.: Symposium on Building Reconstruction and Modernisation. Bratislava 2001, Organising Committee.
- [13] TURČEK, P.: The 4th Foundations 2001 Conference (with international participation). Stará Lesná 2001, Scientific Grant.
- [14] TURČEK, P.: International Foundations 2001 Conference. Brno 2001, Czech Republic, Scientific Grant.
- [15] TURČEK, P.: International Geotechnical Field Methods 2001 Conference. Ústí nad Labem 1999, Czech Republic, Scientific Grant.