

DEPARTMENT OF GEOTECHNICS

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I. STAFF**Professors**

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II. EQUIPMENT

II.1 Teaching and Research Laboratories

- mechanical laboratory 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.
- computers 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. The 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 environment, 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	Kopecký
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

Properties of Rocks and Soils	7	2 - 2	Klepsatel 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	Hruštinec
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. Problems of Water Structure and Environment Interaction and Ways to Minimize Them (Bednárová)
2. Geotechnical Structures under Extraordinary Loading States (Hulla)
3. Soil - Structure Interaction at High Loading Intensity (Kuzma)
4. Geotechnical Audit of Environmental Structures and Burdens (Masarovičová)
5. Interaction between Selected Geotechnical Structures and Ground Environment (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, ZU, Žilina

4. Institute of Geotechnics, SAV, Košice
5. Department of Geotechnics, TU, Košice

VI.2 International Cooperation

1. CTU Prague, Czech Republic
2. TU 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

- Barták, J., CVUT Prague, Czech Republic, 2 days
- Brandl, H., TU Vienna, Austria, 3 days
- Broža, J., CVUT Prague, Czech Republic, 2 days
- Feda, J., AVČR – UTAM Prague, Czech Republic, 2 days
- Henogl, J., TU Graz, Austria, 5 days
- Leitner, A., TU Graz, 4 days
- Lenzi, P., TU Graz, Austria, 5 days
- Vaniček, I., CVUT Prague, Czech Republic, 2 days
- Rozsypal, A., SG – Geotechnika Prague, Czech Republic, 2 x2 days
- Semprich, H., TU Graz, Austria, 4 days
- Schubert, M., TU Graz, Austria, 4 days
- Tenschert, E., TU Vienna, Austria, 2 days

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

- Baliak, F.: Czech Republic, 8 days; Austria, 5 days
- Bednářová, E.: Italy, France, Switzerland, 10 days; Czech Republic, 5 days; France, Andorra, Spain, 10 days
- Drinka, D.: Czech Republic, 2 days
- Grambličková, D.: Italy, France, Switzerland, 10 days
- Hudák, J.: Serbia, 6 days
- Hulla, J.: Czech Republic, 9 days; Austria, 5 days; France, 2 days; Germany, 3 days
- Chabroňová, J.: Austria, 4 days
- Kopecký, M.: Austria, Italy, 5 days
- Masarovičová, M.: Czech Republic, 2 x 2 days
- Minárik, M.: Czech Republic, 2 x 2 days; France, Andorra, Spain, 10 days
- Ravinger, R.: Austria, 2 days
- Solčiansky, R.: Serbia, 6 days; Austria, Italy, 5 days

- Súľovská, M.: Germany, 2 days
- Turček, P.: Austria, 16 days; Czech Republic, 5 days

VII. THESES

VII.1. Graduate Theses

No.	Student's Name	Title	Supervisor
1.	Bartošová, M.	Design and Reconsideration of the Foundation of Bridge Structure Nos. 203-00 on D1 Highway	Hruštinec, L.
2.	Brigant, M.	Analysis of Causes of Backwater in Považie	Grambličková, D.
3.	Drábik, M.	Geotechnical Treatment and Reconstruction of Safety Reservoirs for Storm Sewer	Slávik, I.
4.	Gužík, M.	Calculation of Strain Stress and Deformations of Subsoil of Gabčíkovo Hydraulic Power Plant for Different Phases of Construction and Operation	Hruštinec, L.
5.	Harčarik, M.	Design and Reconsideration of the Foundation of Bridge Structure Nos. 201-00 on D1 Highway	Hruštinec, L.
6.	Hudec, V.	Calculation of Settlement of Gabčíkovo Lock Chambers	Kuzma, J.
7.	Chovan, P.	Design and Reconsideration of Foundation of D3 Highway Scaffold Bridge	Hruštinec, L.
8.	Pohebovičová, D.	Review of Structure of Petrovce Weir	Hruštinec, L.
9.	Režný, S.	Effect of Seismic Responses on Stability of Embankments	Hulla, J.
10.	Sitarčík, M.	Ideological Design of Retention Reservoir on Vyčoma River	Bednárová, E.
11.	Slušný, A.	Review of Stability of National Radioactive Material Storage	Kuzma, J.
12.	Struhárová, Z.	Comparison of Methods for Design of Micropilots	Turček, P.
13.	Szárázová, J.	Calculation of Settlement of Interdeck of Burned Fuel in Jaslovské Bohunice	Kuzma, J.
14.	Šimko, J.	Calculation of Settlement of National Radioactive Material Storage	Kuzma, J.
15.	Šimková, S.	Deformations of Body of Málinec Dam	Grambličková, D.
13.	Trnčák, P.	Pet'ov Bridge – Design and Reconsideration of Foundation	Ravinger, R.

VII.2. Doctoral Dissertation

No.	Student's Name	Title	Supervisor
1.	Súľovská, M.	Expected and Real Values of Seepage Through the Bodies and Subsoil of Earth-fill Dams	Hulla, J.

VIII. OTHER ACTIVITIES

VIII.2 Commercial Activities for Firms and Institutions

- Special Structure Company, Ltd., Bratislava
- Water Construction, Inc., Bratislava
- SE, Inc., Nuclear Power Station, Jaslovské Bohunice
- Slovak National Bank, Inc., Bratislava
- VÚIS, Ltd., Bratislava
- VÁHOSTAV, Inc., Žilina

- Váh River Basin Authority, Piešťany
 - RENOS, Inc., Bratislava
 - KERAMOPROJEKT, Inc., Bratislava
 - SG – Geotechnika, Inc., Prague, Bratislava
 - SOLHYDRO, Ltd., Bratislava
 - Slovak Institute of Technical Normalisation, Bratislava
 - GEOS, Inc., Bratislava
 - Bodrog and Hornád River Basin Authority, Košice
 - ENVI-GEO, Ltd., Banská Bystrica
 - Hydrotechnology, Ltd., Bratislava
 - HYDROCONSULT, Inc., Bratislava
 - Slovak Geology Service, Bratislava
 - INGEO, Inc., Žilina
 - INGEO - IGHP, Ltd., Žilina
 - GEOTREND, Ltd., Žilina
 - HYDRO G.E.R., Ltd., Banská Bystrica
 - SE, Inc., Electric Generating Station, Zemianske Kostolany
 - SE, Inc., Nuclear Power Station, Mochovce
 - STAVOSPOL, Ltd., Brno
 - DVORAK – Geotechnics, Ltd., Bratislava
 - DOPRASTAV, Inc., Bratislava
 - TERRAPROJEKT, Inc., Bratislava
 - SVP, Inc., Banská Bystrica, Banská Štiavnica, Košice
 - Hydraulic Power Plant, Inc., Trenčín
- [1] BALIAK, F., et al.: Specific Engineering-Geological Maps M = 1: 10000 Sheets 41-27-11, 15 to 20.
- [2] BALIAK, F., et al.: Tichý potok – Analysis of Possible Slope Failures.
- [3] BEDNÁROVÁ, E., et al.: Analysis of the Development of Seepage Flow Parameters in the Body and Subsoil of the Starina Dam.
- [4] BEDNÁROVÁ, E., et al.: Analysis of the Development of Seepage Flow Parameters in the Body and Subsoil of the Veľká Domaša Dam.
- [5] BEDNÁROVÁ, E., et al.: Analysis of the Development of Seepage Flow Parameters in the Body and Subsoil of the Bukovec II Dam.
- [6] BEDNÁROVÁ, E., et al.: Analysis of the Development of Seepage Flow Parameters in the Body and Subsoil of the Nenince Dam and Design of Treatment.
- [7] BEDNÁROVÁ, E., et al.: Optimizing Designed Treatment in the Core of Karolinka Dam.
- [8] HULLA, J.: Gabčíkovo Hydraulic Structure – Geophysical Measurements in the Sealed Space of Navigation Locks
- [9] HULLA, J.: Analysis of the Seepage Flow Parameters in the Subsoil of the Krpeľany Dam.
- [10] HULLA, J.: Conditions of Navigation Locks at Gabčíkovo in the Year 2006.
- [11] KOPECKÝ, M.: I/68 Mníšek nad Popradom – State Border SR/PR – Road Bypass. Informative I-G Investigation.
- [12] KOPECKÝ, M.: R2 Expressway Zvolen - Bypass. Informative I-G Investigation.

- [13] KOPECKÝ, M.: Review of Stability of Cut-Off Slopes of “Jánovce-Jablonov“ Highway D1 in km 7.85-8.7 and 14.5-15.2.
- [14] KOPECKÝ, M.: I/77 Bardejov, South-West Bypass. Informative I-G Investigation.
- [15] KOPECKÝ, M.: I/68 Plavnica, Road Bypass. Informative I-G Investigation.
- [16] KOPECKÝ, M.: Highway D1 Fričovce - Prešov West, II. Phase, 2. Part Svinia - Prešov West – Modification. Detailed I-G Investigation.
- [17] KOPECKÝ, M.: R4 Košice - Milhost'. Informative I-G Investigation.
- [18] KOPECKÝ, M.: I/74 Snina – Kolonica. Informative I-G Investigation.
- [19] KOPECKÝ, M.: I/68 Prešov - Lipany, Bypass. Informative I-G Investigation.
- [20] KOPECKÝ, M. – SLÁVIK, I. – MASAROVÍČOVÁ, M.: Selected Geotechnical Characteristics of Soils and Their Evaluation (Site Devín).
- [21] KUZMA, J., et al.: Analysis of Geotechnical Parameters of Subsoils of ČOV Štúrovo.
- [22] KUZMA, J., et al.: Expert Opinion on Causes of Sliding Slope at Excavation for Enlargement of Bratislava – Koliba Storage Reservoir.
- [23] KOVAĽKOVÁ, J. – SLÁVIK, I. - MASAROVÍČOVÁ, M.: Selected Geotechnical Characteristics of Soils and Their Evaluation (Site Devín).
- [24] MASAROVÍČOVÁ, M. – SLÁVIK, I. – KOVAĽKOVÁ, J.: Geotechnical Audit of Poša Desludging Site.
- [25] MASAROVÍČOVÁ, M. – SLÁVIK, I.: NCHZ Nováky – Upgrading Geotechnical Information Database for Stability Analysis of 7 Nováky Desludging Site.
- [26] MASAROVÍČOVÁ, M. – SLÁVIK, I. – KOVAĽKOVÁ, J.: Geotechnical Audit of SMZ a.s Jelšava Desludging Site.
- [27] MASAROVÍČOVÁ, M. – SLÁVIK, I.: Temporary Desludging Site, SE a.s., ENO, Enterprise, Supplement of Geotechnical Information in Profiles PF5 and PF29.
- [28] MASAROVÍČOVÁ, M. – SLÁVIK, I.: Analysis of Dynamic Penetration Tests on “Viedenská brána“ Site, Bratislava – Petržalka.
- [29] MASAROVÍČOVÁ, M. – SLÁVIK, I.: Definitive Desludging Sites. Chalmová, SE a.s., ENO, Enterprise – Supplement at Geotechnical Information.
- [30] MASAROVÍČOVÁ, M. – SLÁVIK, I.: Statement to IG Investigation on Construction of “Viedenská brána“, Bratislava – Petržalka.
- [31] MASAROVÍČOVÁ, M. – SLÁVIK, I. – KOVAĽKOVÁ, J.: Geotechnical Characteristics of Geo-Materials of Poša Desludging Site (for Updating Stability Calculations).
- [32] MASAROVÍČOVÁ, M. – SLÁVIK, I. – KOVAĽKOVÁ, J.: Geotechnical Audit of Siderit s.r.o. Nižná Slaná Desludging Site.
- [33] MASAROVÍČOVÁ, M. – SLÁVIK, I. – KOVAĽKOVÁ, J.: Complex Monitoring of Desludging Sites in the Slovak Republic, Part 4.
- [34] RAVINGER, R.: Consultancy on Seismic Load Problems a Gabčíkovo Hydraulic Structure.
- [35] SLÁVIK, I. – MASAROVÍČOVÁ, M.: Statement on Design of Geotechnical Monitoring of “Viedenská brána“ Construction, Bratislava – Petržalka.

- [36] SLÁVIK, I. – MASAROVIČOVÁ, M.: Geotechnical Properties of Subsoil for Future Construction Site Čierny les – Pálenisko in Bratislava.

IX. PUBLICATIONS

IX.1 Journals

Scientific Papers in Slovak Journals:

- [1] HULLA, J.: Actual Problems of Foundation Structures. In: Stavba. Vol. IX, No. 10, 2006, pp. 44-46 (in Slovak)
- [2] HULLA, J.: Retained Excavations during Earthquakes. In: Stavba. Vol. IX, No. 10, 2006, pp. 37-39 (in Slovak)
- [3] HULLA, J.: Protective Measures for Unstable Slopes. In: Stavba. Vol. IX, Nos. 1-2, 2006, p. 15 (in Slovak)
- [4] HULLA, J.: Arrangement of Stability of Excavation Walls. In: Stavba. Vol. IX, No. 5, 2006, pp. 38-39 (in Slovak)
- [5] HULLA, J.: Effect of Seismic Actions on the Stability of Retaining and Sealing Structures of Foundation Excavations. Inžinierske stavby. Vol. 56, No. 1, 2006, pp. 30-34 (in Slovak)
- [6] KLEPSATEL, F. – CHABROŇOVÁ, J.: Safety Equipment of Tunnels on Roads. In: Stavba. Vol. IX, No. 1-2, 2006, pp. 70-73 (in Slovak)
- [7] KLEPSATEL, F. – SÚLOVSKÁ, M.: When the Earth's Crust Heats. In: Stavba. Vol. IX, No. 12, 2006, pp. 56-58 (in Slovak)

Scientific Papers Abroad (Other Journals):

- [1] BEDNÁROVÁ, E. - GRAMBLIČKOVÁ, D. – UHORŠČÁK, Ľ.: Knowledge and Gained from Operation of the Starina Dam. In: Vodní hospodárství. Vol. 56, No. 6, 2006, pp. 205-207 (in Slovak)
- [2] GRAMBLIČKOVÁ, D. - BEDNÁROVÁ, E.: Selected Knowledge Gained from Reviewing the Safety of Flood Embankments Using the Finite Elements Method. In: Vodní hospodárství. Vol. 56, No. 6, 2006, pp. 179-181 (in Slovak)
- [3] HRUŠTINEC, Ľ. - KUZMA, J.: Foundation of a Complicated Building under Difficult Engineering-Geological Conditions. In: Konstrukce. Vol. 5, No. 1, 2006, pp. 25-27 (in Slovak)
- [4] KLEPSATEL, F. – SÚLOVSKÁ, M. – ŠAMOVÁ, M.: The Tunnels on the Austrian Section of the Brenner Railway. In: Tunel. Vol. 15, No. 2, 2006, pp. 57-59 (in Slovak)

IX.2 Books and Textbooks

- [1] LUKÁČ, M. – BEDNÁROVÁ, M.: Design and Operation of Hydraulic Structures. Embankment Dams and Dykes. JAGA Bratislava, 2006, p.183
- [2] TURČEK, P.: Geotechnical Aspects of Capital Construction. Continuing Education in Civil Engineering and Geodesy. Course No. 4, Bratislava, STU Bratislava, 2006

IX.3 Conferences

Contributions to Proceedings in Slovak:

- [1] BALIAK, F. – MALGOT, J. - SOLČIANSKY, R.: The Share of Photogrammetry in Collection of Reading in Engineering-Geological Research and Surveys. In: Proceedings of Conference on Interdisciplinary Application of Photogrammetry. Bratislava, 2006, pp. 57-62 (in Slovak)
- [2] BALIAK, F. – SOLČIANSKY, R. – HUDÁK, J.: Effect of Landslides on the Rural Renovation. In: Proceedings of Conference on Urban, Architectonic and Technical Aspects of Rural Development. Bratislava, 2006, pp. 196-201 (in Slovak)
- [3] BALIAK, F. – MALGOT, J. - SOLČIANSKY, R. – HUDÁK, J.: Landslides on the Route of Highway D1 in the Likavka - Ivachnová Section. In: Proceedings of Geotechnika 2006 Conference. Vysoké Tatry, 2006, pp. 27-32 (in Slovak)
- [4] BALIAK, F. – SOLČIANSKY, R. – HUDÁK, J.: Landslides on the Tunnel Construction in Slovakia. In: Proceedings of Conference on Underground Building Industry. Bojnice, 2006, pp. 158-163 (in Slovak)
- [5] BALIAK, F. – SOLČIANSKY, R. – HUDÁK, J.: Landslides on the Road Structures of Slovakia. In: Proceedings of Conference on Road Q-2006. Rajecké Teplice, 2006, pp. 111-116 (in Slovak)
- [6] BALIAK, F.: Effect of Landslides on Building Activity and Methods for their Stabilization. Stavebnícka ročenka 2007. JAGA Bratislava, 2006, pp. 22-25 (in Slovak)
- [7] BEDNÁROVÁ, E.: Risk Factors in Estimating the Efficiency of a Grouting Curtain. Stavebnícka ročenka 2007. JAGA Bratislava, 2006, pp. 68-72 (in Slovak)
- [8] BEDNÁROVÁ, E. – GRAMBLIČKOVÁ, D. - UHORŠČÁK, E.: Knowledge Gained from Operation of the Starina Dam. In: Proceedings of Conference on 30th Dams Days. Piešťany, 2006. pp. 53-56
- [9] GRAMBLIČKOVÁ, D. - BEDNÁROVÁ, E.: Selected Knowledge Gained from Reviewing the Safety of Flood Embankments Using the Finite Elements Method. In: Proceedings of Conference on 30th Dams Days. Piešťany, 2006. pp. 61-65 (in Slovak)
- [10] CHABROŇOVÁ, J.: Tunnelling and Deformations from Overburden. Stavebnícka ročenka 2007. JAGA Bratislava, 2006, pp. 42-44 (in Slovak)
- [11] CHABROŇOVÁ, J.: Deformation of Overburden Developed by Tunnelling. In: Proceedings of Conference on Underground Building Industry. Bojnice, 2006, pp. 110-115 (in Slovak)
- [12] HUDÁK, J - BALIAK, F. – MALGOT, J. - SOLČIANSKY, R.: Results from Monitoring the Dobrá - Bogárka Landslide. In: Proceedings of Conference on Geology and Environment. Bratislava, 2006 (in Slovak)
- [13] HULLA, J. – HUMMEL, J. – VADKERTI, Š. - CÁBEL, J. – MOSENDZ, G.: State and Subsoil Maintenance of Navigation Locks at Gabčíkovo In: Proceedings of Conference on 30th Dams Days. Piešťany, 2006, pp. 247-250 (in Slovak)
- [14] HULLA, J. – BAČIAK, J. – HUDEC, R. - MAGULA, P.: Development of Seepages through the Subsoil and the Body of Turček Dam. In: Proceedings of Conference on 30th Dams Days. Piešťany, 2006. pp. 65-68 (in Slovak)

- [15] HULLA, J. – GRÓF, V. – HUMMEL, J.: Geotechnical Monitoring on Some Constructions. In: Proceedings of Geotechnika 2006 Conference. High Tatras, 2006, pp. 157-162 (in Slovak)
- [16] HULLA, J.: Design Bearing Capacity of Piles on Vertical Loading. In: Proceedings of Conference on Foundations of Structures, Design and Monitoring Spread and Depth Foundations. High Tatras, 2006, pp. 66-71 (in Slovak)
- [17] HULLA, J. – SÚĽOVSKÁ, M.: Effect of Derivation Canals on a Groundwater Regime. In: Proceedings of Conference on Effect of Anthropogenic Activity on the Water Regimes of Lowlands, Physics of Water in Soil. Michalovce, 2006 (in Slovak)
- [18] KOPECKÝ, M.: Engineering-Geological Investigation of the Design of a Road Cut near the Village of Kechnec In: Proceedings of Geotechnika 2006 Conference. High Tatras, 2006, pp. 21-26 (in Slovak)
- [19] KOPECKÝ, M. – HRIC, S.: Engineering-Geological Investigation for a Highway. In: Proceedings of Conference on Road Q-2006. Rajecké Teplice, 2006, pp. 135-140 (in Slovak)
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