

## DEPARTMENT OF HYDRAULIC ENGINEERING

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### I. STAFF

#### Professors

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### II. EQUIPMENT

#### II.1 Teaching and Research Laboratories

Hydraulic laboratory

#### II.2 Special Measuring Instruments and Computers

Hydraulic laboratory:

Instruments and equipment:

- Closed water circuit with built-in fixed and inclinable flumes
- Direct discharge measurement equipment
- Sets of hydraulic wings for measuring velocity

- Echolot - equipment for measuring reservoir depths
- Flowmate - for measuring flow velocity in rivers
- Equipment for :a) measuring pressure
  - b) measuring water levels
  - c) measuring dissolved oxygen content

Computer laboratory:

- IBM PC Pentium Computers
- HP DXL Plotter
- Printers

### III. TEACHING

#### III.1 Graduate Study

Subject	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Hydraulics I.	4	2 - 3		J. Kamenský
Hydraulics II.	5	3 - 2		J. Kamenský
Water Management Structures	6	3 - 2		L. Možiešik
Weirs	7	3 - 2		M. Gramblička
Groundwater Hydraulics	5	2 - 2		A. Šoltész
Inland Waterways	8	2 - 2		P. Obložinský
Computer Exploitation in Engineering	9	0 - 4		L. Možiešik
Special Issues of Weirs	9	2 - 3		M. Gramblička
Special Issues of Waterways	9	2 - 2		P. Obložinský
Operation and Reconstruction of Hydraulic Structures	9	2 - 0		P. Gramblička
Small Water Power Plants	9	2 - 1		T. Hodák P. Dušička
Stability and Static Solutions of Hydraulic Structures	10	2 - 2		P. Gramblička
Water Power Utilization	8	3 - 2		T. Hodák P. Dušička
Field Measurements	8	2 weeks		L. Možiešik
Hydroenergetics	9	2 - 3		P. Dušička P. Šulek
Construction of Metallic Hydraulic Structures	10	2 - 1		M. Gramblička
Hydraulic Research	10	0 - 3		J. Kamenský
Ecological Problems of Hydraulic Structures	9	2 - 1		J. Kamenský
Engineering Networks and Water Structures	8	2 - 1		A. Šoltész
Automation of Engineering Problems	10	0 - 3		A. Šoltész L. Možiešik F. Hulík
Special Issues of Hydraulic Engineering	10	2 - 1		M. Gramblička P. Dušička L. Možiešik

Numerical Modelling of Hydraulic Processes	9	0-2	A. Šoltész R. Květon
Water and Road Constructions	4	2 – 1	A. Šoltész

### III.2 Postgraduate study

Progressive Methods for Solving Hydraulic, Hydrological and Water Management Problems (P. Dušička, et al.) - 2 semesters (240 hours)

## IV. RESEARCH TARGETS

- Hydraulics of locks and weir structures,
- study of free-surface water flow in open channels,
- investigation of non-stationary flow in hydraulic systems,
- solution of construction problems of small hydro-power plants,
- hydro-power solutions of cascades of hydro-power plants and pump-fed power plants,
- hydrodynamics of subsurface water,
- interaction of surface and subsurface water in the environment,
- evaluation of the effects of hydraulic structures on the environment (EIA),
- numerical simulation of surface and subsurface flow and their interaction,
- mathematical simulation of hydraulic and hydrological processes in catchments,
- field measurements of water level and discharge regimes in rivers and open channels,
- hydraulic aspects of flood protection against external and internal water
- hydro-environmental problems of floodplains in the vicinity of water structures.

## V. RESEARCH PROJECTS

1. *P. Dušička* - Research Grant No. 1/7124/20: Impact of reservoir silting on regulatory properties of water power plants with respect to inland navigation.
2. *A. Šoltész* – Research Grant No. 1/8324/01: Hydrologic-hydraulic assessment of surface and groundwater interaction in runoff of floods in lowland regions.

## VI. COOPERATION

### VI.1 Cooperation in Slovakia

1. Water Power Plants, Trenčín
2. Water Management Construction, Bratislava
3. Slovak Academy of Sciences - Institute of Hydrology, Bratislava
4. Slovak Hydrometeorological Institute, Bratislava
5. Water Resources Research Institute, Bratislava
6. The Research Institute of Irrigation, Bratislava
7. Hydroconsult, project organization, Bratislava
8. Hydrostav, Bratislava
9. Váhostav, Žilina

10. Ministry of Land Use, Bratislava
11. Ministry of the Environment, Bratislava
12. Ministry of Transport, Post and Telecommunications
13. Danube River Basin Authority, Bratislava
14. Váh River Basin Authority, Piestany
15. Hron River Basin Authority, Banská Bystrica
16. Bodrog and Hornad Rivers Basin Authority, Kosice
17. ETIRS Ltd., Bratislava
18. REBUS Ltd., Bratislava
19. Geoland, Bratislava
20. Hydroenergia, Bratislava
21. Vodotika, Bratislava
22. VOEST Alpine, Bratislava
23. FÄH, Bratislava
24. Slovak Navigation Board, Bratislava
25. INTECH, Ltd., Bratislava

## **VI.2 International Cooperation**

1. Czech Technical University, Prague, Faculty of Civil Engineering, Department of Hydraulics Engineering, Czech Republic
2. Technical University of Brno, Faculty of Civil Engineering, Institute of Water Structures, Czech Republic
3. Institut für Wasserbau und Technische Hydromechanik, Technische Universität, Dresden, Germany
4. Fachhochschule Köln, Fachbereich Bauingenieurwesen, Germany
5. Institute of Geotechnic and Hydraulic Engineering, Wroclaw, Poland
6. Water Resources Research Centre (VITUKI), Institute for Water Pollution Control, Budapest, Hungary
7. Delft Hydraulics, Rivers, Navigation and Structures Division, Delft, The Netherlands
8. ILRI Wageningen, The Netherlands
9. MAVEL, Ltd. Benešov, Czech Republic
10. University of St. Cyril and Method, Skopje, Macedonia
11. BOKU Vienna, Austria
12. TU Zagreb, Croatia
13. TU Gdańsk, Poland
14. ETH Zürich, Switzerland
15. University of Kaiserslautern, Germany
16. University of Hannover, Germany
17. Bauhaus-University of Weimar, Germany
18. University of Poitiers, France
19. University of Cyril and Method, Skopje, Macedonia

### **VI.2.1 Visitors to the Department**

1. Prof. Pavel Gabriel - ČVUT Prague
2. Prof. Jiří Kratochvíl - VUT Brno
3. Prof. Vojtěch Broža - ČVUT Prague
4. Assoc. Prof. František Čihák – ČVUT Prague
5. Assoc. Prof. Vlastimil Stara - VUT Brno

6. Assoc. Prof. Jaromír Říha – VUT Brno
7. Dr. Miloslav Šlezinger – VUT Brno
8. Dr. Hana Uhmanová – VUT Brno
9. Prof. Adolf Patera – ČVUT Prague

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

1. Dušička, P. - ILRI Wageningen, The Netherlands, 7 days
2. Kamenský, J. - VUT Brno, Czech Republic, 5 days
3. Možiešik, Ľ. - VUT Brno, Czech Republic, 6 days
4. Šoltész, A. - ČVUT Prague, Czech Republic, 5 days
5. Šoltész, A. - VUT Brno, Czech Republic, 3 days
6. Šoltész, A. - University of Innsbruck, Austria, 4 days
7. Šoltész, A. - University of Derby, UK, 6 days
8. Šoltész, A. - University of Leipzig, Germany, 6 days
9. Hodák, T. - VUT Brno, Czech Republic, 3 days
10. Šoltész, A. - VUT Brno, Czech Republic, 2 days
11. Obložinský, P. - TU Gdansk, Poland, 4 days
12. Šoltész, A. - TU Gdansk, Poland, 4 days
13. Dušička, P. - TU Gdansk, Poland, 4 days
14. Květon, R. - TU Gdansk, Poland, 4 days

## VII. THESES

### VII.1 Graduate Theses

No.	Student's Name	Title	Supervisor
1.	A. Balážová	Proposal of an Alternative Modification to the Danube Channel with effects on the Groundwater Level Regime in the Flood Plain Area	D. Baroková
2.	M. Blaško	Weir Structure on the Hron River in the Žarnovica Profile	M. Gramblička
3.	Z. Čepcová	Reconstruction Project for Small Water Power Plant near the Zamkovský Hut in the High Tatras	T. Hodák
4.	P. Ďurčenka	Optimalization of the Water Level Regime for Navigation Equipment on the Lower Part of the Váh River	Ľ. Možiešik
5.	D. Ďurianová	Relation between Navigation and Water Energy Utilization on a Canal	P. Obložinský
6.	Z. Dzurošková	Weir Structure on the Nitra River in the Prievidza Profile	M. Gramblička
7.	B. Fialíková	Estimated Capacity of the Turiec River at the Water Works and Application of Alternative Designs	J. Kamenský
8.	L. Hegedúšová	Weir Structure on the Hron River in the Žarnovica (under the Bridge) Profile	M. Gramblička
9.	J. Ivanický	Calculating the Buoyancy Force of a Weir on the Bottom of a Fixed Construction	D. Baroková

10. P. Kliment Analysis of the Groundwater Level Regime A. Šoltész in the vicinity near Kraľová Water Works
11. T. Kostrec Alternative Design of the Spillway on the Slatinka J. Kamenský Water Works
12. S. Kubů Hydraulic systems for Filling and Emptying P. Obložinský Navigation Locks
13. H. Lahká Project of a Small Water Power Plant on the Hron T. Hodák River at Žarnovica
14. M. Supek Alternative Design for a Hydraulic Structures A. Šoltész System for the Old Danube Riverbed.
15. P. Tibenský Proposal for the Tandem Operation P. Dušička of the Hričov- Mikšová I- Považská Bystrica Water Power Plant Group
16. J. Valent Proposal for the Tandem Operation P. Dušička of the Ladce-Ilava–Dubnica–Trenčín Water Power Plant Group

## VIII. OTHER ACTIVITIES

### VIII.1 Commercial Activities for Firms and Institutions

#### Government Related Activities

1. DUŠIČKA, P., et al.: Author's Supervision of Málinec II and Málinec III Small Water Power Plants, FCE SUT Bratislava 2001/2002
2. DUŠIČKA, P., et al.: Effect of Predicted Navigation on Energy Functions on the Upper and Middle Part of the Váh Cascade, FCE SUT Bratislava 2002
3. DUŠIČKA, P., et al.: Analysis of the Designed for the Sealing of the Dam on the Upper and Lower Water Reservoirs and its Effects on the Proposed Ipeľ Pumped Storage Plant, FCE SUT Bratislava 2002
4. DUŠIČKA, P., et al.: Analysis of the Reconstruction of the Orava River Bed in the Area of the Road Bridge through Orava Párnica - Žaškov, FCE SUT Bratislava 2002
5. DUŠIČKA, P., et al.: Shouldering Structures near the Water Village at the Open-air Liptov Museum Pribylina, FCE SUT Bratislava 2002
6. DUŠIČKA, P., et al.: Building Permits (2 pieces) for the Hydraulic Works Forming Part of the Záhorie Water Structure in the Area of Bažantnice on the Balažov Jarok River, FCE STU Bratislava 2002
7. ŠOLTÉSZ, A., et al.: Application of a Mathematical Model of Groundwater Flow and Design in Proposals for Decreasing the Groundwater Level in the Village of Mojš, FCE SUT Bratislava 2002
8. ŠOLTÉSZ, A.: Technical Support for Slovak Visit to the INBO General Council in Quebec, FCE SUT Bratislava 2002

### VIII.2 Membership of International Commissions

1. Šoltész, A.: National correspondent for groundwater resources – International Association of Hydrological Sciences
2. Šoltész, A.: Vice President, Slovak Executive Committee of the International Commission

- for Irrigation and Drainage
3. Kamenský, J.: Member, International Association for Hydraulic Research
  4. Obložinský, P.: Member, PIANC

### VIII.3 Membership in nationwide technical, professional and scientific organizations

1. Kamenský, J.: Member, TNK Hydrotechnics
2. Kamenský, J.: Staff member, Water Management Journal
3. Kamenský, J.: Member, Confederation of FCE SUT
4. Kamenský, J.: Member, Confederation of Water Research Institute in Bratislava
5. Kamenský, J.: Head, SOK Hydrotechnics
6. Možiešik, L.: Executive secretary, Commission of Slovak Navigation Congress
7. Obložinský, P.: SVHS chair member
8. Obložinský, P.: Member, SOK Hydrotechnics
9. Hodák, T.: Member, SOK Hydrotechnics
10. Hodák, T.: SVHS Member, Water Power Plants Section
11. Šoltész, A.: Member, TNK Hydrotechnics
12. Šoltész, A.: Member, Confederation of RILWR in Bratislava
13. Šoltész, A.: Member, SOK Hydrotechnics
14. Šoltész, A.: Member, SOK Irrigation and Drainage
15. Šoltész, A.: Staff member, Slovak Journal of Civil Engineering
16. Šoltész, A.: Member of the VEGA Scientific Commission for Civil Engineering, Architecture, Mining and Geotechnics
17. Šoltész, A.: Agricultural Academy of Sciences – Vice President of Water Management Section
18. Šoltész, A.: SVTS Member, Hydrotechnics Section
19. Dušička, P.: SVHS Member, Water Power Plant Section

## IX. PUBLICATIONS

### IX.1 Journals

- [1] DUŠIČKA, P. - DUŠIČKA, M.: Parameters for Use of the Primary Hydroenergetic Potential in Slovakia. *Energia* 1/2002, Bratislava, 2002, pp. 48-50
- [2] ŠOLTÉSZ, A. - ŠOLTÉSZ, J.: History of Protective and Drainage Structures in Slovakia. In: *SJCE*, Vol. X., 2002/1, pp.43-49
- [3] ŠOLTÉSZ, A.: Effect of Construction and Operation of Water Works on Groundwater Flow. In: *Vodohospodársky spravodajca XLV č.5*, 2002, pp. 30-31
- [4] KAMENSKÝ, J. - KEDROVIČ, M.: Possibility of Increase in Retention Ability of Polder, *Vodohospodársky spravodajca* No. 5, Year XLV, pp. 7 – 9
- [5] HORNÁČEK, L. - BAROKOVÁ, D.: Simulation of Extraction of Pesticide from Groundwater by Macro Model. *Vodohospodársky spravodajca*, Year XLV., No.11, Bratislava, 2001, pp. 6-8
- [6] OBLOŽINSKÝ, P.: The Gabčíkovo Locks on the Danube Waterway. *Bulletin of the Polish Section of PIANC*, No. 1(4), Gdansk, 2002, pp. 11-14
- [7] DUŠIČKA, P. - DUŠIČKA, M.: Parameters for the Use of the Primary Hydroenergetic

Potential in Slovakia. *Energia* 3,4/2002, Prague, 2002, pp. 68-70

- [8] ŠOLTÉSZ, A.: International Internship and International Strategy at the Faculty of Civil Engineering. In: *Academia*, Year XIII., No. 4, 2002, pp. 39-40
- [9] OBLOŽINSKÝ, P.: Annual Report on the Theme "Water Ways". Bulletin of the Slovak Navigation Congress, No. 6, Bratislava, 2002, pp. 24 -40

### IX.3 Conferences

- [1] DUŠIČKA, P. - KVĚTON, R.: 1-D Modelling in the Process of Operating Channel Power Plants - Theory, Application and Results. In: *Advances in Hydrosience and Engineering*, Warsaw, Poland, 2002, pp. 130
- [2] HULÍK, F.: Analysis of the Reconstruction of the Orava River Bed in Area of the Road Bridge through Orava Párnica - Žaškov. In: *Proceedings of the 2d International Water Management Colloquium*, Brno, 2002, pp. 34-38
- [3] DUŠIČKA, P. - KVĚTON, R.: Utilization of Hydrodynamic Modelling in the Operation of the Gabčíkovo Water Power Plant. In: *Proceedings of the 2d International Water Management Colloquium*, Brno, 2002, pp. 43-48
- [4] BAROKOVÁ, D. - BALÁŽOVÁ, A. - IVANICKÝ, J.: Possible Solutions to the Hydraulic Problems of Groundwater Using the ANSYS Programme. In: *10th ANSYS Users' Meeting, International Conference*, Czech Republic, Čejkovice, 2002, pp. 1-6 (Section I-C-1)
- [5] ŠOLTÉSZ, A.: Water Management in Regions Affected by Water Structure Construction and Operation. In: *Advances in Hydrosience and Engineering*, Warsaw, Poland, 2002, pp. 127
- [6] KAMENSKÝ, J.: Flood Protection of Villages in River Valleys. In: *Proceedings of the 7th International Conference, 5th Section: Environment Engineering*, Košice, 2002, pp. 22-25
- [7] DUŠIČKA, P. - ŠULEK, P.: Impact of Storage Volume of a Reservoir on the Operating Facilities of Water Power Plant. In: *Proceedings of the 7th International Conference, 5th Section: Environment Engineering*, Košice, 2002, pp. 26-29
- [8] DUŠIČKA, P.: Proposal for the Utilization of Operating Facilities of Gabčíkovo Water Power Plant. In: *Proceedings of the 7th International Conference, 5th Section: Environment at Engineering*, Košice, 2002, pp. 30-35
- [9] MOŽIEŠIK, Ľ.: Navigation on the Váh River - Contribution to Protection of Environment. In: *Proceedings of the 7th International Conference, 5th Section: Environment at Engineering*, Košice, 2002, pp. 36-39
- [10] HODÁK, T. - DUŠIČKA, P. - ŠULEK, P.: Biocorridors Solution at Water Works. In: *Proceedings of the 7th International Conference, 5th Section: Environment at Engineering*, Košice, 2002, pp. 44-49
- [11] HODÁK, T. - DUŠIČKA, P. - TUROŠÍK, J.: Small Water Power Plant in the development of a Microregion. In: *For the Region of Banská Bystrica*, 2002
- [12] HODÁK, T. - DUŠIČKA, P.: Early Examples of the Utilization of Water Energy in Slovakia. In: *Scientific Conference on 240 Years of the University Educational System in Slovakia*, Bratislava - Banská Štiavnica, 2002



- [13] DUŠIČKA, P. - DUŠIČKA, M.: Parameters for the Use of the Primary Hydroenergetic Potential in Slovakia. In: Proceedings of the 28th International Conference, Dams and Reservoirs 2002, Bratislava, 2002
- [14] HODÁK, T. - DUŠIČKA, P. - TUROŠÍK, J.: Small Water Power Plant in the development of a Microregion. In: Proceedings of the International Conference on Architectural and Urban Aspects of Rural Restoration, Bratislava, 2002, pp. 27-29
- [15] BAROKOVÁ, D. - BALÁŽOVÁ, A.: Groundwater Flow Regime on the Right Side of the Flood Plain Area of the Danube. In: International Conference on 10 Years of the Operation of the Gabčíkovo Water Power Plant, Gabčíkovo, 2002, pp. 247-256
- [16] HODÁK, T. - DUŠIČKA, P. - MOŽIEŠIK, Ľ.: Examination of Part of the Engine Room of the Water Power Plant under Construction and Connection of Intake Canal leading to Gabčíkovo Water Works. In: International Conference on 10 Years of the Operation of the Gabčíkovo Water Power Plant, Gabčíkovo, 2002, pp. 257-267
- [17] DUŠIČKA, P. - TÓTH, L.: Research on Wave Regime in Intake and Outlet Canals of the Gabčíkovo Water Works in Connection with Rapid Discharge. In: International Conference on 10 Years of the Operation of the Gabčíkovo Water Power Plant, Gabčíkovo, 2002, pp. 269-275
- [18] DUŠIČKA, P. - MOŽIEŠIK, Ľ. - ŠULEK, P.: Research on the Regulatory Facilities of the Gabčíkovo Water Works from the Flow Conditions on the Stretch Between Gabčíkovo Water Power Plant and Medveďov Bridge. In: International Conference on 10 Years of the Operation of the Gabčíkovo Water Power Plant, Gabčíkovo, 2002, pp. 277-284
- [19] DUŠIČKA, P. - KVĚTON, R.: Hydrodynamic Model of the Gabčíkovo Water Power Plant. In: International Conference on 10 Years of the Operation of the Gabčíkovo Water Power Plant, Gabčíkovo, 2002, pp. 285-291
- [20] MOŽIEŠIK, Ľ.: Interaction of Navigation and Energy Operation at Gabčíkovo Water Works. In: International Conference on 10 Years of the Operation of the Gabčíkovo Water Power Plant, Gabčíkovo, 2002, pp. 293-305
- [21] KAMENSKÝ, J. - SLANINKA, V.: Small Water Works and Flood Protection Function. In: Proceedings of the 28th International Conference, Dams and Reservoirs 2002, Bratislava, 2002, pp. 109 - 116
- [22] KAMENSKÝ, J. - ŠOLTÉSZ, A.: Samuel Mikovíni – One of the First Hydraulic Engineers in Slovakia. In: Scientific Conference - 240 Years of the University Educational System in Slovakia. 4th Section: Cartography - Surveyors – Water Management. Bratislava, 2002, pp. 117 - 120
- [23] OBLOŽINSKÝ, P.: Ship Escalator – New Possibilities for Navigation in Navigation Locks. In: Proceedings of the 21st International Conference, Navigation Days 2002, Podbanské, September 2002, pp. 325-333
- [24] CABADAJ, R. - OBLOŽINSKÝ, P.: Hydraulics of Navigation Locks – Effect on the Filling Sequence and Time in a Navigation Lock. In: Proceedings of the 21st International Conference, Navigation Days 2002, Podbanské, September 2002, pp. 313-317
- [25] OBLOŽINSKÝ, P. - RUSKO, M. - DEBNÁR, P. - ČESNEK, K.: Geosynthetic Mat for TRABENT Sealing. In: Proceedings of the 21st International Conference, Navigation Days 2002, Podbanské, September 2002, pp. 334-339

- [26] BAČÍK, M. - OPATOVSKÁ, G. - VIRÁG, P. - GRAMBLIČKA, M. - SIKORA, A.: Polder Efficiency in Relation to Sill Crest Height. In: Proceedings of the 28th International Conference, Dams and Reservoirs 2002, Bratislava, 2002
- [27] MOŽIEŠIK, L.: Operation and Evolution of Water Ways in Slovakia with regard to Current Legislation. In: Proceedings of the 21st International Conference, Navigation Days 2002, Podbanské, September 2002
- [28] MOŽIEŠIK, L.: Proposals for the Design of Navigation Steps Using Numerical Modelling. In: Proceedings of the 21st International Conference, Navigation Days 2002, Podbanské, September 2002
- [29] BAROKOVÁ, D. - SKALOVÁ, J.: Closed Area of the Water Regime of the Veľké Kozmálovce Water Structure, In: Proceedings of the 28th International Conference, Dams and Reservoirs 2002, Bratislava, 2002, pp. 3-8
- [30] BALÁŽOVÁ, A. - BAROKOVÁ, D. - MIKULA, K. - PFENDER, D. – ŠOLTÉSZ, A.: Numerical Modelling of the Groundwater Flow in the Left Floodplain Area of the Danube River, In: ALGORITHMS 2002, 16th Conference on Scientific Computing, High Tatras – Podbanské, 2002, pp. 237-244
- [31] ŠOLTÉSZ, A. - ŠOLTÉSZ, J.: Historical Evolution of Protection and Drainage Structures in Slovakia. In: Scientific Conference on 240 Years of the University Educational System in Slovakia. 4th Section: Cartography - Surveyors – Water Management. Bratislava, 2002, pp. 121-130
- [32] SZOLGAY, J. - ŠOLTÉSZ, A. - DUŠIČKA, P. - RUSNÁK, D.: Global Changes in Knowledge and Education in Water Management and Water Construction. In: Scientific Conference on 240 Years of the University Educational System in Slovakia. 4th Section: Cartography - Surveyors – Water Management. Bratislava, 2002, pp. 99-108