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Cagalincová Božena (secretary) + 421 2 59274 498 cagalinc@svf.stuba.sk

II. EQUIPMENT

II.1 Teaching and Research Laboratories

Soil physics and hydrological laboratory
CAD and GIS laboratory
Computer room
III. TEACHING

III.1 Graduate Study

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester</th>
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<td>E. Klementová</td>
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<td>Reclamation and Conservation of Landscape</td>
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<td>Topics in Irrigation Design</td>
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<td>Engineering Networks</td>
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<td>Soil Water Regime</td>
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<td>Computer-Aided Engineering Design</td>
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<td>Hydrology</td>
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<td>3 – 2</td>
<td>J. Szolgay</td>
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<td>River Training</td>
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<td>2 – 3</td>
<td>V. Macura</td>
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<td>Practical Training</td>
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<td>Hydrological Field Measurements</td>
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<td>Quantitative Hydromorphology</td>
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<td>Regulation of Water Regimes</td>
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<td>River Restoration</td>
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<td>Water Bodies in Urban Environments</td>
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<td>Integrated River Basin Management Project</td>
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<td>0 - 5</td>
<td>M. Čistý, K. Hlavčová, V. Macura</td>
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</table>

IV. RESEARCH TARGETS

- study of ecologically sound river training methods for the protection of riverine biotopes
- guidelines for restoring rivers in Slovakia
- water balance changes as a result of human activities in catchments
- reconstruction and exploitation of irrigation systems during economic transition
- hydrological flood routing and flood forecasting
- computation of design discharges in mountainous catchments
- regionalisation of design discharges in Slovakia
- application of GIS techniques for land protection and sediment yield computation
- methods for estimating the homogeneity of a hydrological time series
- assessment of climatic change impacts on hydrological processes
- adaptation strategies for water resources management during climatic change

V.  RESEARCH PROJECTS


VI.  COOPERATION

VI.1  Cooperation in Slovakia

1. Bodrog and Hornad Rivers Basin Authority, Kosice
2. Danube River Basin Authority, Bratislava
3. Department of Geography, Faculty of Natural Sciences, Comenius University, Bratislava
4. Department of Land Reclamation, University of Agriculture, Nitra
5. Hron River Basin Authority, Banska Bystrica
6. Institute of Hydrology of the Slovak Academy of Sciences in Bratislava
7. Institute of Land Ecology of the Slovak Academy of Sciences in Bratislava
8. Institute of Zoology of the Slovak Academy of Sciences in Bratislava
10. Ministry of the Environment, Bratislava
11. Irrigation Research Institute, Bratislava
12. Slovak Hydrometeorological Institute, Bratislava
13. Vah River Basin Authority, Piestany
14. Water Resources Research Institute, Bratislava
VI.2 International Cooperation

1. Department of Hydraulic Engineering, Faculty of Civil Engineering, Czech Technical University, Prague, Czech Republic
2. Department of Landscape and Water Management, Faculty of Civil Engineering, Technical University, Brno, Czech Republic
3. Institute of Hydraulics, Hydrology and Water Management, Faculty of Civil Engineering, Vienna University of Technology, Vienna, Austria
4. Department of Hydraulic Structures, Warsaw Agricultural University, Poland
5. Department of Water Resources Engineering, TU Budapest, Hungary
6. VITUKI Budapest, Hungary
7. University of Uppsala, Sweden
8. Department of Water Resources, TU Kaiserslautern, Germany

VI.2.1 Visitors to the Department

1. Peter Molnár - Geographisches Institut ETH, Zurich, Switzerland
2. Gábor Balint - VITUKI Budapest, Hungary
3. Zbigniew Kundzewicz - Research Centre of Agricultural and Forest Environments, Polish Academy of Sciences, Poznan, Poland
4. Adolf Patera - Faculty of Civil Engineering, Czech Technical University, Prague, Czech Republic
5. Karel Vrána - Faculty of Civil Engineering, Czech Technical University, Prague, Czech Republic
6. Miloš Starý - Faculty of Civil Engineering, Technical University, Brno, Czech Republic
7. Miroslav Dumbrovský - Faculty of Civil Engineering, Technical University, Brno, Czech Republic
8. Jan Šálek - Faculty of Civil Engineering, Technical University, Brno, Czech Republic

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

Kohnová, S.: ETNET 21-ENVIRONMENT WATER, 1. Plenary Meeting, Delft
Kohnová, S.: ETNET 21-ENVIRONMENT WATER Workshop, ETH Zurich, Meeting of Parners of SP Groups
Kubeš, R.: Postgraduate Program on Hydrology and Hydrogeology, Module : Hydrological Forecasting Methods, 1 – 7. 2. 2001, ETH Zurich
Kubeš, R.: Postgraduate Program on Hydrology and Hydrogeology, Module : Hydrological Risk, 6 – 9. 3. 2001, ETH Zurich
Kalaš, M.: Postgraduate Program on Hydrology and Hydrogeology, Module : Hydrological Risk, 6 – 9. 3. 2001, ETH Zurich

VII. THESES

VII.1 Graduate Theses

<table>
<thead>
<tr>
<th>No.</th>
<th>Student’s name</th>
<th>Title</th>
<th>Supervisor</th>
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<tbody>
<tr>
<td>1.</td>
<td>M. Hučko</td>
<td>Drainage of the Lieskové – Melčice Region</td>
<td>J. Blaha</td>
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</tbody>
</table>
2. M. Hovorková Using Simulation Models and GIS in Management of M. Čistý Irrigation Schemes
3. P. Buček Impact of Climate Change on River Runoff in Selected K. Hlavčová Basins in Slovakia
4. M Struhárová Modelling of Nonpoint Source Pollution from a Basin K. Hlavčová
5. L. Dorin Analysis of an Extreme Flood in the Myjava Region K. Hlavčová
6. J. Rusnáková Evaluation of Small Water Reservoirs from Their E. Klementová Landscape-Ecological Aspects
7. K. Cveliharová Methods of Drought Evaluation and Their Application in E. Klementová a Selected Region
8. K. Slatárovič Microspraying - Progressive Irrigation Systems E. Klementová
9. V. Bernhauser Regional Analysis of Maximum Design Discharges S. Kohnová Based on L-moments
10. V. Mikulec Evaluation of Water Soil Regime Characteristics in J. Skalová Unsaturated Zone by Mathematical Simulation
11. M. Plesník Using Particle Size Distribution in the Determination of J. Skalová Soil Water Retention Curves
12. P. Zelienka River Regulation of the Jablonka River V. Macura
13. A. Bacmaňák Evaluation of Discharges in the Rudava Basin V. Mosný

Students from the University of Kaiserslautern, Germany (Socrates – Erasmus Programme)
1. B. Hasbach Comparison of Methods for Design of Extreme Rainfall Estimation in the Upper Hron Region in Central Slovakia S. Kohnová J. Szolgay

VII.2 Doctoral Dissertation

No. Student’s name Title Supervisor
1. J. Parajka Grid-Based Mapping of Long-Term Mean Runoff in Slovakia J. Szolgay
2. R. Ivančo Analysis of the Impact of Discharges and River Bed Characteristics on the Aquatic Zone of Streams V. Macura

VIII. OTHER ACTIVITIES

VIII.1 Special Lectures

VIII.2 Consulting Activities

1. Čistý, M., et al.: Technological Modernisation of Irrigation and Drainage Systems
4. Hlavčová, K., et al.: Impact of Climate Change on Runoff Regime in Western Slovakia

IX. PUBLICATIONS

IX.1 Journals

Current Contents

Journals
IX.2 Books and Textbooks


IX.3 Conference Papers


International Conference on Water and Nature Conservation in the Danube – Tisza River Basin. Magyar Hidrológiai Tárbaság, Debrecen 2001, pp. 41-50 (in English)


[38] MOSNÝ, V.: The Impact of Water Reservoirs on Water Quantity and Quality in the Rudava Basin. In: Sustainable Use of Land and Water. Proceedings of the 19th European Regional ICID Conference. ICID, CIID, Brno, Prague 2001, CD (in English)


