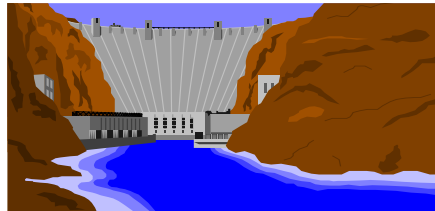


FACULTY OF HYDROTECHNICAL ENGINEERING



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RESEARCH CENTER FOR MODELLING, DESIGNING AND BEHAVIOR MONITORING OF THE HYDROTECHNICAL DEVELOPMENTS

GENERAL PRESENTATION

The center was set up in 2001 and certified by the Romanian Research Authority in Higher Education (CNCSIS certificate no. 99 / CC-C, 11 May 2001).

The main research fields of the center lies generally on water engineering, having as subfields:

- Water constructional works
- Urban and rural sanitation
- Land reclamation arrangements.

Based on the long experience of the researchers and the existing research infrastructure, the center is able to manage engineering projects in fields connected to water engineering.

MAIN ACTIVITIES

- managing research projects in water engineering
- design and technical assistance in Hydrotechnical structures
- water constructional works
- rivers regulation works
- waterways and harbors
- modern technologies in water engineering
- drinking and industrial water supply network and plants
- waste water treatment plants
- sewage network
- water biology and chemistry
- water quality monitoring
- numerical modeling in surface water and groundwater flow
- numerical modeling of the pollutants transport in groundwater
- land reclamation and improvement, irrigations and drainages
- rural sustainable development
- soil science studies and erosion controls
- polluted soils rehabilitation
- surveying, cadastre
- waste disposal sites design and monitoring

PROJECTS

RESEARCH TEAM

Ion, M., Lazar, Gh., Constantin, T.A., Nicoara, S.V., Popescu-Busan, A, Garbaciuc, C., Ghitescu, A.

Expertise of the Mures river right bank in the area of the scaffold bridge foot for transportation pipes at Sanpetru German – Bodrog storage

Contract no. 656/ 2007

Value: 1,610 RON

Beneficiary: S.C.PETROM SA TIMISOARA

Technical assistance regarding the achievement of the required monitoring and control devices at Valiug, Secu, Gozna and Timis - Trei Ape dams.

Contract no. 689/ 2007

Value: 5,000 RON

Beneficiary: S.C. TMK-RESITA S.A

Behavior monitoring at the hydrotechnical constructions of Valiug, Secu, Gozna and Timis – Trei Ape permanent water reservoirs.

Contract no. 705/ 2007

Value: 30,000 RON

Beneficiary: S.C. TMK-RESITA S.A

Expertise of the Timis - Trei Ape dam crest and of the over crossing track.

Contract no. 707/ 2007

Value: 5,000 RON

Beneficiary: S.C. TMK-RESITA S.A

Feasibility study for the Sulinis and Fiac stream courses regulation in the area of Bata locality, Arad County

Contract no. 708/ 2007

Value: 10,000 RON

Beneficiary: Bata Municipal Council

Technical documentation required for obtaining the water management permit for Valiug, Secu, Gozna and Timis – Trei Ape dams

Contract no. 709/ 2007

Value: 20,000 RON

Beneficiary: S.C. TMK-RESITA S.A

Consolidation of the Mures river right bank in the area of the scaffold bridge foot for the mineral oil transportation pipes at Sanpetru German – Bodrog storage

Contract no. 734/ 2007

Value: 14,000 RON

Beneficiary: S.C. PETROM SA TIMISOARA

Expertise - implications of locating the new Caransebes Prosecutor's office building in Timis river major streambed upon high water flow

Contract no. 768/ 2007

Value: 8,750 RON

Beneficiary: S.C. TEHNOPROIECT COMTRANS S.R.L

RESEARCH TEAM

Ion, M., Doandes, V.

Structure behavior monitoring in safety working conditions for the S.K.TMK – Resita S.A. wharf construction located on the Gozna water reservoir right bank

Contract no. 710/ 2007
Value: 5,000 RON
Beneficiary: S.C. TMK-RESITA S.A

Cotoroaia stream arrangement on Voloiac-Cotoroaia sector, Mehedinti county

Contract no. 585/ 2007
Value: 2,000 RON
Beneficiary: S.C. DEVIS PROTEAM SRL

Dimensioned plan in digitate format, performed through the cross – sectional profiles method in order to develop the sewerage system design in Gavojdia village, Timis County

Contract no. 632/ 2007
Value: 7,000 RON
Beneficiary: SC. P&CONSULT SRL

Dimensioned plan in digitate format, performed through the cross – sectional profiles method in order to develop the sewerage system design in VV Delamarina village, Timis County

Contract no. 633/ 2007
Value: 7,000 RON
Beneficiary: SC. P&CONSULT SRL

RESEARCH TEAM

Nemes I., Doandes, V., Constantinescu L., Man, T.E

Amelioration perimeters in agrarian land stock (Herneacova – Recas, Otelec, Uivar)

Contract no. 765/ 2007
Value: 5,117 RON
Beneficiary: DADR TIMIS

RESEARCH TEAM

Orlescu, M., Man, T.E., Nicoara, S.V., Constantin T.A., Popescu-Busan, A.I., Beilicci, R.

The rehabilitation of the irrigations in the Aranca drainage-irrigations system for 590 hectares, in the Saravale area

Contract no. 696/ 2007
Value: 25,000 RON
Beneficiary: S.C. Genagricola SRL

RESEARCH TEAM

Beilicci, R., Beilicci, E.,

Water supply system in Bogda, Timis County

Contract no. 799/ 2007
Value: 17,993 RON
Beneficiary: Bogda Local Council

RESEARCH TEAM

Man, T.E., Constantinescu, L., Halbac Cotoara, R., Modra, C.

Complex models and methods for research in rural sustainable development in Romania

Contract no. 78GR/ 2007
Value: 10,000 RON
Beneficiary: CNCISIS

RESEARCH TEAM

Badaluta, M.C.

Researches regarding the identification, understanding, simulation and calculus mechanism of the flooding caused by breakdown of the linear protection systems

Contract no. TD code 10 no. 169/ 2007
Value: 28,300 RON
Beneficiary: CNCISIS

RESEARCH TEAM

David, I., Sumalan, I., Beilicci, R.,

Providing services for implementation of models and training in the field of groundwater and solute transport modelling

Contract no. 737/ 2007
Value: 3,000 Euro
Beneficiary: Dutch Ministry of Economic Affairs (EVD), The Netherlands

PUBLICATIONS

BOOKS

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2. Doandes, V., *Applied topography*, Second Edition, Politehnica Publishing House, Timisoara, 2007, 424 pages, ISBN 978-973-625-547-2 (published in Romanian)
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4. Rogobete, Gh., Beutură, D., Grozav, A., Nemes, I., *Soil Acidification by Ferrolisis in Pedological Sequence of Muntele Mic, Caras-Severin, County*, Factors and Soil Processes in the Temperate Zones, ISSN 1582-4616, pp. 67-74
5. Rogobete, D. Grozav, *Hydric Soils of Banat*, Scientifical papers. Agriculture, Part II, Session – Ecological Restauration and Management of Rural Environment, Timișoara, 2007, ISSN 1221-5279, pp. 309-314
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8. Nemeș I., Constantinescu L., *Geogen Pollution with Heavy Metals in Bistra Area, Caraș – Severin County*, Scientifical papers. Agriculture, Part II, 5th Session – Soil Sciences, 2007, Timișoara, ISSN 1221-5279, pp. 69-75
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- Hydrotechnics, Vol. 52 (66), 2007, No.1, ISSN 1224-6042, pp. 39-46
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 20. Beilicci R., Beilicci E., Iliuta C., *3 D Modeling for Inflow Of Water Into an Excavation Pit*, Scientific Bulletin of "Politehnica" University of Timișoara, Romania, Transactions on Hydrotechnics, Vol. 52 (66), 2007, No.1, ISSN 1224-6042, pp. 15-18
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 32. Achim, C., Girbaciua, A., Staniloiu, C., Iliuta, C., *The effect of the urbanization and how to reduce the stormwater on the small surface*, Scientific Bulletin of "Politehnica" University of Timișoara, Romania, Transactions on Hydrotechnics, Vol. 52 (66), 2007, No.2, ISSN 1224-6042, pp. 45-48
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32. Beilicci, E., Beilicci R., *The modelling of the liquid runoff into temporary hydrographic network, 32nd Internationally Attended Scientific Conference of the Military technical Academy, Modern technologies in the 21st Century, Bucharest, ISBN 978-973-640-127-5*
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34. Lazăr Gh., Ion M., Nicoară Ș.V., Constantin A.T., Bușan A.I., Ghițescu A., *1D Numerical modeling of the water flow in a low height retention structure provided with seven spillway gaps in case of an accidental high waters, Hydro 2007, New approaches for a new era, International Conference and Exhibition, 2007, Granada, Spain*
35. Nemes, N., *Water quality degradation on Bistra River as anthropic activity effect., Integrated Water Resources Management, Workshop, 3rd Edition, ISBN 978-973-638-326-7*

PhD THESIS

1. Garbaciuc, A., *The study and modeling of the ground water defertilization by in-situ methods* Ph.D supervisor: Prof. Dr.Eng. David, I.
2. Marinescu, R., *Contribution to the water losses reducing in the water supply systems, Ph.D supervisor: Prof. Dr.Eng. Mirel I.*
3. Bertici R., *Banat's soils and their influence on the constructions, Ph.D supervisor: Prof. Dr.Eng. Rogobete Gh.*
4. Pasca Bodog, M., *Irrigation-drainage interaction and its impact upon Cris River basin, Ph.D supervisor: Prof. Dr.Eng. Man T.E.*
5. Lauer, I., *Economical technologies of maintenance and exploitation of drainage arrangements, Ph.D supervisor: Prof. Dr.Eng. Man T.E.*
6. Blenesi, D.A., *Optimal techniques and methods of geosynthetical materials use in land improvement arrangements, Ph.D supervisor: Prof. Dr.Eng. Man T.E.*
7. Madar, M., *Researches regarding the renaturation of the water bodies strongly modified, Ph.D supervisor: Prof. Dr.Eng. Cretu Gh.*
8. Balica, S. *Contributions to the optimization of the arrangement schemes by non-structural solutions, Ph.D supervisor: Prof. Dr.Eng. Cretu Gh.*
9. Mocanu, F., *Ecohydrology modeling of some aquatic systems, Ph.D supervisor: Prof. Dr.Eng. Cretu Gh.*

PhD STUDENTS

1. Scientific Supervisor: Prof. Dr. Eng. Ioan David: *Hydraulics and Fluid Mechanics*
 - Pisleaga, M., *The optimization of the retention basins for the sewerage systems*
 - Crisan, M., *Environmental Monitoring Systems*
 - Busan, A., *The environmental impact of the hydraulic structures on rivers*
 - Chebutiu, A., *Rehabilitation strategies of the industrial estate and their environmental impact*
 - Ghițescu, A., *Mesh less methods for hydraulic structures*
 - Gardan, M., *The study and modeling of the sanitary protection zones in complex hydrogeological conditions*
 - David, C., *The impact of the terrestrial ways on the groundwater regime*

- Ieremciuc, M. (*second year Phd Student*)
 - Iliuta, C. (*second year Phd Student*)
 - Racelescu, R. (*first year Phd Student*)
 - Rada, M. (*first year Phd Student*)
 - Voitsuk, A.G. (*first year Phd Student*)
2. Scientific Supervisor: Prof.Dr.Eng. Gheorghe Cretu, *Water Management*
- Riti, A., *Water developments impact upon the ecosystems in mining areas*
 - Podaru, C.A., *Water management quality models on a river*
 - Mocanu, F., *Ecohydrology modeling of some aquatic systems*
 - Nagy, C. *Optimization of the water management system in dry periods*
 - Garbaciuc, C., *Contributions to the optimization of integrated water management systems*
 - Balla, G., *Researches regarding sediments flow for complex arrangements of the hydrographic basin*
 - Talau, M. *Researches regarding the flow rates forecast in dry periods in a arranged hydrographic basin*
 - Georgescu, A., *Study of qualitative water management in Barzava river hydrographic basin for a clean water*
 - Damsescu, A., *Researches regarding navigation on Danube River in extremely hydrological conditions on Bazias-Bechet section*
 - Stoica, B.S. *Economic analysis of the Jiu hydrographic basin*
 - Badaluta Minda, C. *The study of the flooding occurred by the damages of the defense works*
 - Husaru, G., (*second year Phd Student*)
 - Aldescu, C. (*first year Phd Student*)
 - Cepeha D. (*first year Phd Student*)
3. Scientific Supervisor: Prof.Dr.Eng. Teodor Eugen Man, : *Land Reclamation*
- Nedelcu, D.R., *Hydro ameliorative works impact on the trans boundary water quality from the hydrographic area of Banat*
 - Suiugan, M., *Using of GIS in the water management from the hydrographic basin of Bihor county*
- Pavel, C., *Rehabilitation and modernization solutions of irrigation system Crivina-Vânju Mare*
 - Halbac Cotoara, R., *Efficient drainage systems for humidity excess lands*
 - Gabor, A., *The retechnologization of irrigation system Şagu-Fântânele-Arad*
 - Modra, C., *Evaluation and calculus methods of the drought mitigation in western Side of Romania*
 - Campan, G., *Irrigation schemes using the mobile irrigation and sprinkling equipment*
 - Iosip, C. D., *Economic reconstruction models and the influence of the financing programs on the sustainable rural development*
 - Tentis, M., *Hazards and risk in the Crisuri's hydrographic basin*
 - Olariu Casauteanu R., (*second year Phd Student*)
 - Receanu, R., (*second year Phd Student*)
 - Raduica, R. (*first year Phd Student*)
4. Scientific Supervisor: Prof.Dr.Eng. Gheorghe Rogobete, : *Land Reclamation*
- Pascovici, I., *The impact of the lignite exploitation from Husnicioara-Mehedinti basin and the ecological reconstruction possibilities of their natural habitat*
 - Ghetu, M., *Solutions for the rehabilitation of the terrain polluted with radioactive substances and heavy metals from Banat*
 - Covaci, C., *The impact of the forest administration from Caraş-Severin County over the forester soils*
 - Grozav, A., *Phenomena of the water and soil pollution-the study of a section from hydrographic basin of the river Bârzava*
 - Beutura, S., *Contribution of the study of regosols and erodosols from Caraş-Severin county*
 - Timbota, O., *Land reclamation and improvement measures of the ecological reconstruction of some acid soils from Timiş County*
 - Nemes, N., *Phenomena of retention and mobility of phosphorus inside the soils waters of the hydrographic basin of Bistra-Caraş-Severin*
 - Tudor, V., *Phenomena of nitrates pollution of soils from the Down Plain of the Bârzava river*

- Costescu, I., *Integrated management of the quality of soils and surfaces water in the hydrographic basin of Bega river*
 - Stroe L., *Sterile waste stabilization of Banat region*
 - Liuba C., *Modern methods of soil erosion monitoring from Timiș County*
5. Scientific Supervisor: Prof.Dr.Eng. Mirel, I. : *Sanitary Engineering*
- Sabau, E., *Sewerage systems models*
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 - Pistrui, T., *Human settlements protection and environment legislation*
 - Vargovici, S., *Contributions to the effects of the accidental events on the human psychology*
 - Pantea, E., *The study of the waste water treatment from food industry*
 - Opruta, N., *Contribution to the regional water supply systems optimization*
 - Retezan. R., *The drawing and exploitation optimization of the sanitation systems*
 - Mihart, D., *The effects of the natural reservoirs on the environment quality*
 - Sandru, I., *(second year PhD student)*
 - Olaru, I., *(first year Phd Student)*
 - Szigyarto, I., *(first year Phd Student)*
6. Scientific Supervisor: Prof.Dr.Eng. C. Jura: *Sanitary Engineering*
- Capotescu, V.M.C., *Management of the sewerage system in Timisoara*
 - Paian, S., *Water purification plant for surface water*
7. Scientific Supervisor: Prof.Dr.Eng. A. Wehry: *Land Reclamation*
- Breja R., *Ecological reconstruction and pursuance of bauxite land career*
 - Stoica V. C., *Ecological management solutions for waste products*
 - Panțu, H., *The modernization of Timiș-Bega hydrotechnical system*
 - Stoica D. M., *The forecast of water quality evolution in Cibin river for the middle and lower basin*
- Merloi L., *The land reclamation and improvement potential, workable solution for Banat*
 - Nuțaș Vancia G., *Land reclamation and improvement evolution and efficiency in Timiș county*
 - Pasztai, Z.A., *Modern technologies for the execution of landfills. Case study: Oradea City*
 - Blaj, C., *Mathematic modeling of drainage arrangement efficiency*
 - Coput, F., *Mathematic modeling of irrigation systems*
 - Steolea, P., *Gravitational irrigation for slope lands, as irrigation methods in relation with pressure*
8. Scientific Supervisor: Prof. Dr. Eng. Popa Gh.: *Water Structures*
- Matei, F., *Stress and strain state determination in the arch shape dams foundations*
 - Maries, C., *Water flow around a retention structure with low water head*
 - Riiosu, J., *High waters management*
 - Botos, M., *Running behavior study for temporary storage dams in case of turning into permanent ones*
 - Ciobanu, P., *Stress state study in the of abutment pier of the weir dams under tainted gate action depending on the hinge geometry*
 - Jugariu, E., *The monitoring and maintaining the functions of the old water storages in the Banat area*
 - Zaharia, M., *The monitoring of the water flow rate for the Mures river on the Arad section*
 - Orlescu, C., *Water tightening accomplishment an hydrotechnical retention and protection works*
 - Schipor, F., *Waste water treatment plants optimization for small and medium localities*
 - Marinescu, L., *The calculus of the buried hydrotechnical constructions*

PERSPECTIVES

- updating the European trends in water engineering and applying them to Romanian realities
- ensuring technical assistance for the design groups and companies in order to provide water supply projects for small communities
- a complete inventory of the companies acting in the Romanian west side of the country

regarding research demands and in this way to set up new research projects

- studies, research and design for rehabilitation of the land reclamation arrangements
- enlarging the international cooperation in the field of water engineering researches
- further co-operation between our research center and other research centers from Iasi, Bucharest and Constanta Universities in the

field of the groundwater management and its protection against pollution

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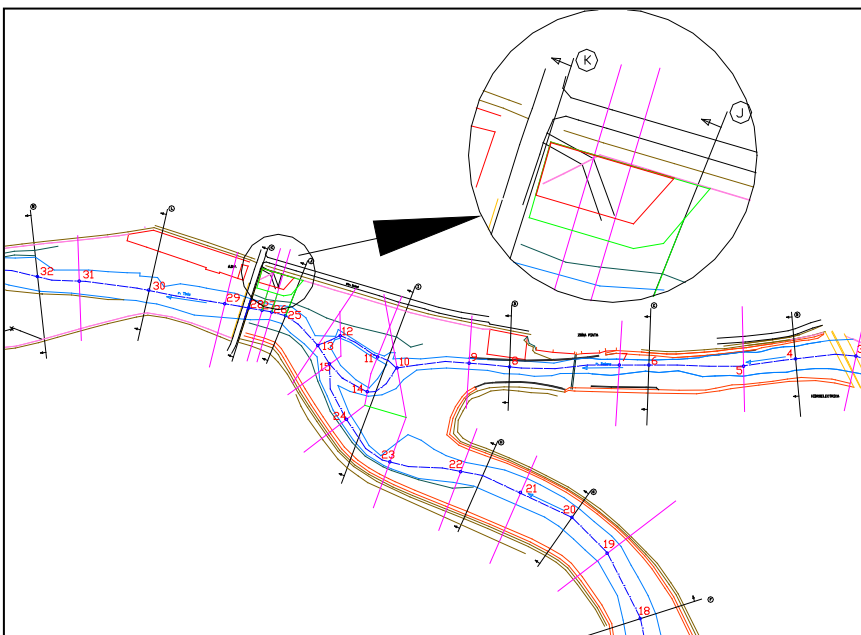
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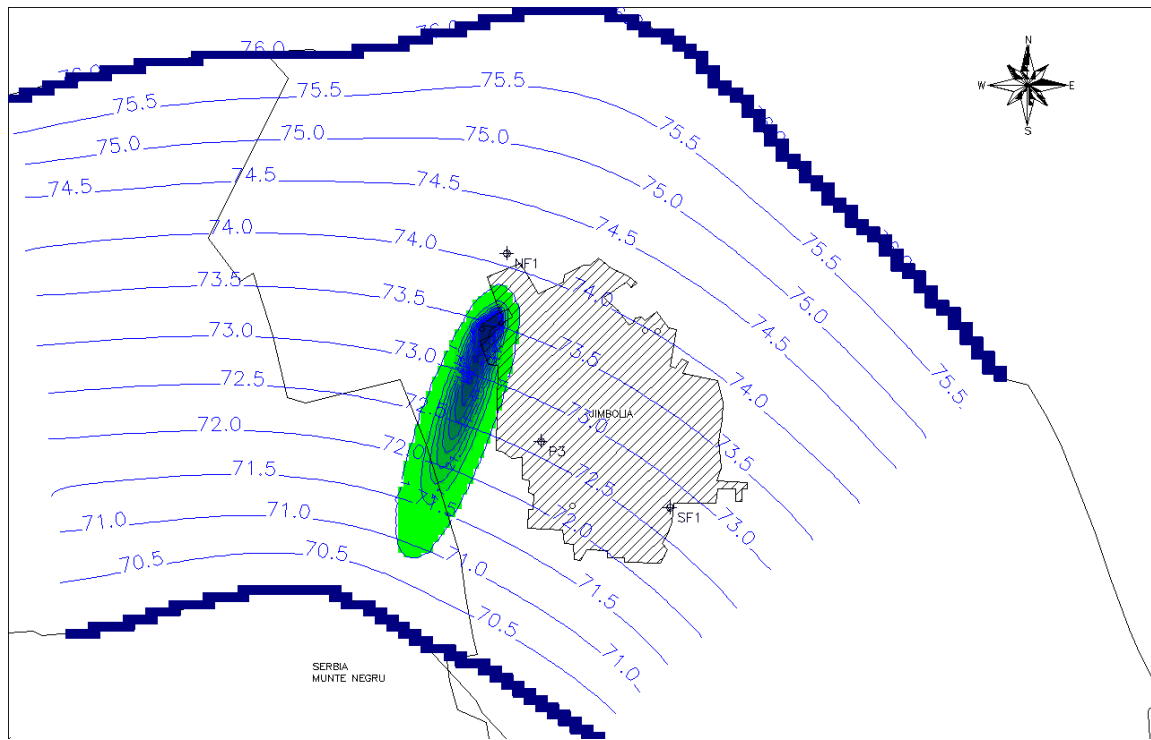
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Studies regarding the dams safety running



Studies regarding the location of the building in the major valley of the river



Studies. Modeling Landfill sites

