

**SCIENTIFIC BULLETIN OF  
“Politehnica” University of Timișoara, Romania  
Transactions on HYDROTEHNICS**

**CONTENT**

**Vol. 50 (64) 2005, No. 1, ISSN 1224-6042**

<i>Constantin, T.A., Nicoara, S., Busan, A.</i> - Possibilities of considering a hydropower plant with pumped storage in the power graphs of the National Power System .....	<b>9</b>
<i>Constantin, T.A., Popa,Gh., Constantin,L.</i> - Opportunity and procedure for considering hydro power plant with pumped storage in the power graphs of the National Power System .....	<b>15</b>
<i>T.Dordea, T., Cretu, Gh., Popoviciu, M.O.</i> - Restoration of the hydrotechnical arrangement Rovinta Mare – Banloc.....	<b>21</b>
<i>Lefter,L., Popovici, A., Ilinca, C.</i> - Consideration about the investments efficiency into hydropower system. Case study on Olt River, sector Avrig-Cornetu .....	<b>27</b>
<i>Preluscheck, E., Preluscheck,R.</i> –The state of art of the hydrotechnical junctions Sanmartinul Maghiar and Sanmihaiul Roman on Bega channel .....	<b>34</b>
<i>Preluscheck, E.</i> - What will be the fate of the Bega navigable channel? .....	<b>38</b>
<i>Truica, E.I., Jugariu,E., Popa, Gh.</i> - The rehabilitation of the old dams from Banat area. Case study hydrotechnical junctions Costei – Topolovat .....	<b>42</b>
<i>Sunai,G.</i> -Dam-foundation seismic interaction analysis .....	<b>46</b>
<i>Lazar, Gh., Ghitescu, A.</i> -Computation of the stresses in an anchoring block by using the classic method and the finite element method .....	<b>54</b>
<i>Matei, F., Olariu, G., Ion, M., Popa, Gh.</i> - Strain and stress state distribution for a loading water chamber with two compartments .....	<b>62</b>
<i>Maries, C., Riiosu, J., Popa, Gh., Ion, M., Lazar, Gh.</i> - Computer-assisted modeling of infiltrations under an low overflowing dam by the finite elements method .....	<b>66</b>
<i>Olariu, G., Matei, F., Maries, C., Popa, Gh.</i> - Lock chambers computation by the help of Finite Elements Method .....	<b>72</b>
<i>Pogany, A.</i> - Einige Betrachtungen bezüglich der notwendigen geologischen Erkundungen beim Entwurf derWasserkraftstollen .....	<b>78</b>
<i>Carabet, A., Beilicci, R., Podoleanu, C., Batea, F.</i> - Modernization of the water distribution system of Timisoara.	<b>82</b>
<i>Jura, C., Mirel, I., C. Podoleanu, Achim, C.</i> - Optimierung der Klarprozesse in Klaranlagen für Städtisches Abwasser... ....	<b>90</b>
<i>Jura, C., Mirel, I., Podoleanu, C., Batea, F.</i> -The improvement of technological processes in water treatment stations .....	<b>98</b>
<i>Marinescu, R.,L., Marinescu, L., Mirel, I.</i> - Notes to establish technical inventory.....	<b>105</b>

<i>Popa, Gh., Pavel, M.D.</i> –Energetically optimization of the groundwater collection front.....	<b>109</b>
<i>Bartha, I., Anastasoaei, M., Marcoie, N., Agafitei, M., Toaca, D.</i> , - Irrigation equipment of zinc-plated steel with laterally hoses.....	<b>114</b>
<i>Constantinescu, L.</i> - Soil pollution by chemical fertilizers plants.....	<b>118</b>
<i>Constantinescu, L., Rogobete, Gh., Nemes, I., Grozav, A.</i> -Research concerning the landslides in Caras-Severin County.....	<b>122</b>
<i>Luca, M., Nitescu, E., Popescu, S., Ghelase, I.</i> -The clogging-up process in the irrigation system.....	<b>126</b>
<i>Man, T.E., Cimpan, G.</i> -Watering and Movement Schemes of the Mobile Sprinkler Equipments. Case Study Fantanele Arad Irrigation System.....	<b>130</b>
<i>Man, T.E., Nastea, C., Blaguescu, C., Gabor, A., Lauer, I.</i> -The reorganization of the local authority in the land reclamation field: SNIF Timis County –Institutional frame for future rehabilitation, modernization and efficiency of the land improvement arrangements.....	<b>138</b>
<i>Man, T.E., Halbac-Cotoara, R.</i> –Clasical and modern methods of drainage planning used in our country and worldwide .....	<b>146</b>
<i>Nemes, I.</i> , -Research Concerning the Erosion Phenomena in Almaj Depression, Caras - Severin Country.....	<b>154</b>
<i>Rogobete, Gh., Constantinescu, L., Nemes I.</i> - Research Concerning the Use of Entraintrropic Soils in South-Western Romania .....	<b>158</b>
<i>Rogobete, Gh., Nemes, N.</i> - Mobile Phosphorus Contents in some Acide Soils in Bistra Hydrographic Area... ..	<b>162</b>
<i>Wehry, A., Orlescu, M.C., Nutas Vancia, G., Halbac-Cotoara, R.</i> - Efficient technological solutions for restoring the irrigation in the irrigation-drainage system Aranca and Cenad, Ttimis County.....	<b>166</b>
<i>Agafitei, A., Agafitei, M.</i> – Contributions to the eutrophication process in the water storage located in Iasi County area .....	<b>174</b>
<i>Bolba, R., Matei, D.</i> -The ecological impact of the human activity on the water quality of the same storage lakes of Bahlui Basin River.....	<b>178</b>
<i>Riti, A.</i> , - Current techniques and technologies for diminishing the ecological impact in the Motru mining site ...	<b>182</b>
<i>Serban, A. C.</i> - A method for determining additional discharges on hydraulically structured rivers to avoid fish mortality phenomena.....	<b>186</b>
<i>Arsenie, D.I., Florea, M., Mirzali, I., Nitescu, C.</i> - Some aspects concerning the propagation of the water hammer in pressure pipes .....	<b>190</b>
<i>Iosif, A., Eles, G.</i> – Analytical modeling of a liquid flow crossing through a grid of a hydrotechnical arrangement... ..	<b>196</b>
<i>Luca, M., Luca, A.L.</i> - <i>Hydraulic researches concerning filtering modules for small pressure</i> .....	<b>200</b>
<i>Muj, S.</i> - The calculus of presures and velocities of a flow through a diverter by using finite element method..	<b>204</b>
<i>Popescu, I.</i> - Applications of hydroinformatics for hydraulic engineers.....	<b>208</b>

<i>Sumalan, I., Achim, C.</i> – Contributions on the hydraulic calculus of the ring-shaped pipe.....	212
<i>Balla, G., Balica, S.</i> - Sediment transport in a hydrographic basin.....	218
<i>Beilicci, E., Beilicci, R.</i> – Estimation of the solid flow in a hydrographic basin.....	222
<i>Bohus, C.</i> - Risk Assessment Procedures at the Hydrotechnical Structures.....	226
<i>Craciun, I.</i> -Influence of the wave flooding attenuation due by the storage lakes in the validation of a. hydrological model .....	234
<i>Farcas, R., Stoica, F.</i> -Floods monitoring with automatic systems.....	238
<i>Girbaciu, C., Ion, M., Girbaciu, A.</i> - Computer estimation of the water surface and water volume for a reservoir.....	242
<i>Mocanu, F. C.</i> – Ecohydrology – a tool for lasting management of water resources.....	246
<i>Pepa, C.A.</i> –Study regarding the water quality in the Bega catchment area.....	250
<i>Sofronie, C.</i> -The optimization of a water system exploitation.....	254
<i>Anastasescu, D.</i> -Earthquakes in Banat region and buildings behavior.....	258
<i>Bancila, R., Gadeanu, L., Petzek, E.</i> - Welds design according to EUROCODE 3.....	262
<i>Jiva, C., Nita, D.</i> - <i>The ovoid of the damages at bridges</i> .....	266
<i>Scrada, C., Scrada, L.</i> – Modular concept in the small wood constructions.....	272
<i>Doandes, V., Eles, G.</i> - Application of topographical electronic equipment in estimating the fill up rate of storage reservoirs .....	278
<i>Doandes, V., Eles, G.,-</i> Horizontal displacement pursue methodology of circular construction objectives.....	286
<i>Grecea, C.</i> –Model of ecological and economic spatial analysis of multifunctional resources exploitation on urban and regional area.....	290
<i>Man, T.E., Tentis, M., Suiugan, M.</i> - GIS applications use in water bodies determination. Case study: Hydrographical sub-basin Crisul Repede .....	296
<i>Musat, C.</i> -Determination of local displacements and deformations in geodetic networks for hydrotechnical works .....	300
<i>Sturza, M., Baciu, A.</i> - Rainfall-runoff hydrological parameters estimating by GIS.....	304
<i>Crivat, N.</i> – Uniform structures on multiple function spaces.....	308
<i>Ion, M., Ghitescu, A.</i> -1995 - 2005: Ten years of partnership between T.U. Graz, Civil Engineering Faculty, Hydraulic Engineering Institutes, and P. U. Timisoara, Hydrotechnical Engineering Faculty.....	312
<i>Maftei, C., Chevallier, P., Rosu, L., Buta, C., Adam, G.</i> -Mathematical modeling of the relation suction-moisture..	318