

# Scientific Bulletin of the POLITEHNICA University of Timișoara, Romania

## TRANSACTIONS on HYDROTECHNICS

ISSN 1224-6042

Volume 60 (74), Issue 2, 2015

### CONTENT

1	Popescu-Busan, I.A., Lazăr, Gh.I., Ghitescu, M.A., Constantin, A.T., Nicoară, S.V., Flooding case study along a specific sector of Timiș river lower course	5
2	Beilicci, R.F., Beilicci, E.B.,M., Solute pollutants transport modeling in the sewerage of the localities Boldur, Timiș County – Romania	13
3	Sumălan, I., Marossy, Z., The study of infiltration through a eart dam by different methods	17
4	Barliba, C., Barliba, L.L., Eleș, G., Achieving topographical works for stakingout the main elements of a trout farm	21
5	Ghitescu, M.A., Lazăr, Gh.I.,Popescu-Busan, I.A., Constantin, A.T., Nicoară, S.V., Numerical modelling of high water flow transit for a specific river reach	27
6	Stefănescu, C., Study on new discoveries in recent years regarding the alternative energy in the world	35
7	Balaj, C.I., Paulescu, M., Man, T.E, Experimental study of a direct-coupled PV water pumping system	43
8	Hriscan, R, Corici, S., Leucuța, G.C., Man, T.E., Monitoring the exploitation behavior of the "Valea de Pești" dam	47
9	Balaj, I.C., Man,T.E., Paulescu, M., Combined effect of air temperature and solar radiation on the performance of PV powered water pumping systems	51
10	Beilicci, E., Beilicci, R., A comparative analysis of two advanced hydroinformatic tools for rainfall – runoff phenomena modeling	55
11	Nemeș, N.S., Costescu,I.A., Pelea, G.N., Trends and predictive research on Bistra River water quality, Caras Severin County	59
12	Costescu, I.A., Nemeș, N.S., Pelea, G.N., Aspects regarding slope stability/instability determination in the operation of urban waste compliant landfill	64
13	Badaluta – Minda, C., Influence of hydrological regime on the wetland ecosystem	69
14	Ciortea,I., Man,T.E., Kozora, M., Maier, L., Trial Loads Method check of Valea Runcu intake desander	73
15	Mirel, I., Penția, D., Florescu, C., Ionescu, D.,Water treatment from swimming pool, piscine and swimming basins	77
16	Voina,I., Bala, A. C., Brebu, F. M., Research on the achievement digital terrain model to birtz quarry, Aghireș village, cluj County	82