

Tehnički institut / Technical Institute of Bijeljina

ZBORNIK RADOVA / BULLETIN OF
Godina / Year V – No. 9.

UDC: 62

DOI: 10.7251

ISSN 1840-4855

e-ISSN 2233-0046

A R H I V
ZA TEHNIČKE NAUKE
Archives for Technical Sciences



Bijeljina 2013

A R H I V
ZA TEHNIČKE NAUKE
Archives for Technical Sciences

Founder and publisher:
Technical Institute of Bijeljina

Editor in Chief:
Prof. Ph.D. Neđo Đurić

Editorial Board

Acad. prof. Ph.D. Stevan Karamata
*Serbian Academy of Sciences and Arts,
Serbia*
Acad. prof. Ph.D. Aleksandar Grubic
*Academy of Sciences and Arts
of the Republic of Srpska*
Prof. Ph.D. Jovan Djukovic
*Technology Faculty Zvornik, Republic of
Srpska*
Prof. Ph.D. Petar Santrac
Civil Engineering Subotica, Serbia
Prof. Ph.D. Isik Yilmaz
*Faculty of Engineering, Department of
Geological Engineering, Sivas, Turkey*
Prof. Ph.D. Karolj Kasaš
Civil Engineering Subotica, Serbia
Prof. Ph.D. Svetlana Cupac
Faculty of Agriculture Belgrade, Serbia
Prof. Ph.D. Dragan Marković
*Faculty for Applied Ecology, Belgrade,
Serbia*

Prof. Ph.D. Hazim Hrvatovic
*Mining, Geology and Civil Engineering
Tuzla, Bosnia and Herzegovina*
Prof. Ph.D. Bozo Kolonja
Faculty of Min. and Geol. Belgrade, Serbia
Prof. Ph.D. Mirko Ivkovic
*Mining Faculty Prijedor, Republic of
Srpska*
Prof. Ph.D. Josip Halamic
*Natural Sciences and Mathematics Faculty
Zagreb, Croatia*
Prof. Ph.D. Milovan Pecelj
Geographical Faculty of Belgrade, Serbia
Edita Lazarova Ph.D, Scientific adviser
*Instituite of Geotechnics Slovak Academy
of Sciences, Slovakia*
Robert Sain Ph.D. Scientific adviser
Geological Survey of Slovenia

Technical Editor:
Đurić Dijana, ecologist

Lector for English
School of Foreign Languages "Cerovac" Bijeljina

Address:
Tehnički institut Bijeljina, Starine Novaka bb
Tel. +387 (55) 203 – 022, 211 – 701
Fax. +387 (55) 203 – 312

E. mail: tehnicki@tehnicki-institut.com; arhiv@arhivzatehnickenauke.com
www.arhivzatehnickenauke.com

Press:
Grafosemberija Bijeljina

Circulation:
300 copies,

C O N T E N T

GEOLOGY

<i>Taletović Nermin, Osmanović Dean, Isabegović Jasmin</i>	
Aplications of GPS and GNSS in geological mapping and development of engineering geological maps at example of landslide “Junuzovići” Srebrenik	1

GEOTECHNICS

<i>Đurić Nedо</i>	
Geotechnical conditions for the foundation of Wastewater treatment plant facilities in V. Obarska settlement near Bijeljina	9
<i>Duric Nedо, Đuran Perica, Miljanović Jovo</i>	
Laboratory testing of samples at the location of the Thermal power plant – Ugljevik 3	15

MINING

<i>Miljanović Jovo, Kovačević Žarko, Tošić Dražena</i>	
The results of AT roofbolting system of support application in "Soko" underground mine	25
<i>Kovačević Žarko, Čelebić Miodrag, Tošić Dražena</i>	
Calculation of drilling and blasting parameters for quarry "Dobrnja" near Banja Luka	35

CONSTRUCTION

<i>Borković Aleksandar</i>	
Analysis of snap behaviour of shallow cylindrical shells using the finite strip method	43

<i>Milajić Aleksandar, Pejičić Goran, Beljaković Dejan</i>	
Optimal structural design of reinforced concrete structures – Review of existing solutions considering applicability aspect 53
<i>Žarko Nestorović, Milan Trifković, Tihomir Milutinović, Goran Pejičić, Hamidreza Gholami</i>	
On the possibility of measured angle checking by using measured distances 61
ENVIRONMENT	
<i>Slobodan Tošović, Svetlana Mladenović Janković, Anka Cvetković</i>	
Exposure to particulate matter and heavy metals in the populations of central zones of Belgrade 69

SUPPLEMENT

***ANALYTICAL PROCESSION OF ARTICLES / published in the National and university library of
Republika Srpska / Archives for Technical Sciences, No. 8.***