

Tehnički institut / Technical Institute of Bijeljina

---

ZBORNİK RADOVA / BULLETIN OF  
Godina / Year IV – No. 6.

---

UDC: 62

DOI: 10.5825

ISSN 1840-4855

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



Bijeljina 2014

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, Bosnia and Herzegovina*  
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. Svjetlana Cupac  
*Faculty of Agriculture Belgrade, Serbia*  
Prof. Ph.D. Dragan Marković  
*Facultu 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,  
Bosnia and Herzegovina*  
Prof. Ph.D. Vladimir Malbašić  
*Mining Faculty Prijedor, Republic of Srpska,  
Bosnia and Herzegovina*  
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  
*Institute of Geotechnics Slovak Academy of  
Sciences, Slovakia*  
Robert Sain Ph.D. Scientific adviser  
*Geological Survey of Slovenia*

*Technical Editor:*  
Đurić Dijana, ecologis

*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](mailto:tehnicki@tehnicki-institut.com); [arhiv@arhivzatehnickenauke.com](mailto:arhiv@arhivzatehnickenauke.com)  
[www.arhivzatehnickenauke.com](http://www.arhivzatehnickenauke.com)

*Press:*  
Grafosemberija Bijeljina

*Circulation:*  
300 copies

# CONTENTS

## GEOLOGY

<i>Radosavljević Slobodan, Dorđević Dragoslav, Stojanović Jovica, Radosavljević-Mihajlović Ana, Kašić Vladan</i> <b>Srebrenica orefield, Podrinje metallogenic district, Republic of Srpska, B&amp;H: Hydrated Fe(Al) - Phosphates and their parageneses within the Pb-Yn mineralization</b> .....	1
<i>Salkić Zehra, Babajić Elvir, Babajić Alisa, Pobrić Vedran, Bešić Aldin</i> <b>Petrogenesis of the Maglaj volcanics, Central Bosnia</b> .....	7
<i>Đurić Neđo</i> <b>Geological characteristics of the terrain on the highway Corridor Vc section Johovac – Doboj jug, stac. km 10+754 – 15+820</b> .....	17
<i>Operta Mevlida, Golijanin Jelena, Čatović Amra</i> <b>Examples of landslides in the Federation of Bosnia and Herzegovina with the analysis of the causes of their activation</b> .....	25

## GEOTECHNICS

<i>Talić Zlatan, Čerimagić Đenari</i> <b>Geotechnical characteristics of the terrain and calculation of bearing capacity for bridge No. 1 of motorway Lašva – Donji Vakuf, subsection interchange Lašva – interchange Kaonik</b> .....	33
---	----

## MINING

<i>Stojanović B. Lazar, Tomić J. Petar, Stević Z. Mladen</i> <b>The selection of optimal contour of open pit "Delici" near Ugljevik</b> .....	41
<i>Bošković Zvonimir, Čebašek Vladimir, Nuhanović Sanel</i> <b>Selection casing material depending of wells fluid corrosivity</b> .....	51

## CONSTRUCTION

<i>Lukić Dragan, Zlatanović Elefterija</i> <b>Definition of cracks for the ultimate degeneration process of revolving ellipsoids</b> .....	59
<i>Vlaški Svjetlana</i> <b>Use of Brom's method and finite difference method in the dimensioning of piles for foundation pit insurance</b> .....	65

## ENVIRONMENT

<i>Pavlović Ivan, Jovičić Dubravka, Vitas Ana, Petrović Nada, Ilić Živka</i> <b>Control of parasitic contamination of green areas in urban environment – Belgrade experience</b> .....	73
<i>Radivojević Ljiljana, Jovičić Dubravka, Šantrić Ljiljana, Gašić Slavica, Umičević Gajić Jelena</i> <b>Effects of metsulfuron-methyl on soil microbial acitivity</b> .....	77

## SUPPLEMENT

***ANALYTICAL PROCESSION OF ARTICLES / published in the National and university library of  
Republika Srpska / Archives for Technical Sciences, No. 10.***