

Tehnički institut / Technical Institute of Bijeljina

---

ZBORNİK RADOVA / BULLETIN OF  
Godina / Year V – No. 8.

---

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. Svjetlana Cupac  
*Faculty of Agriculture 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  
*Institute of Geotechnics Slovak Academy of  
Sciences, Slovakia*

Robert Sain Ph.D. Scientific adviser  
*Geological Survey of Slovenia*

*Technical Editor:*  
Tadić Snezana, B.Sc.

*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:*  
Grafosemerija Bijeljina

*Circulation:*  
300 copies

# CONTENTS

## GEOLOGY

*Đurić Neđo, Perišić Milan, Đurić Dijana*

**Landslide on location of water source Studenac near Bijeljina, Republic of Srpska** ..... 1

*Skopljak Ferid*

**The contribution to the groundwater quantities calculations in critical sections of landslides – example landslide „Mrakuša“ in Sarajevo** ..... 9

*Spona Uzeir*

**Seismic activities and seismotectonic faults in Bosnia and Herzegovina** ..... 17

## MINING

*Šabović Almir, Isabegović Jasmin, Karadžin Zvezdan, Delić Edin*

**Possibility of injecting CO<sub>2</sub> into the underground by boreholes on potential locations in Bosnia and Herzegovina** ..... 25

*Bošković Zvonimir, Čebašek Vladimir, Gojković Nebojša*

**Application of local cement for cementing oil wells in the south eastern region of the Pannonian basin** ..... 35

## CONSTRUCTION

*Vlaški Dalibor, Orašanin Goran*

**The analysis of the effects of IWA methodology application on water supply systems in Bosnia and Herzegovina** ..... 41

## CHEMICAL TECHNOLOGY

*Mockovčiaková Annamária, Danková Zuzana, Briančin Jaroslav*

**Surface and structure study of clay-based composites after thermal treatment** ..... 49

## ENVIRONMENT

*Pozder Mirza*

**Research on the effects of pavement surface condition on road traffic noise** ..... 57

*Adžemović Mesud, Bartula Mirjana., Aleksić Jordan*

**Methodology for economic evaluation of water management** ..... 65

*Vidaković Mira, Đurić Neđo, Savković Petar, Babić Radenko*

**pH of precipitation in the area of the town of Bijeljina** ..... 75

## SUPPLEMENT

**ANALYTICAL PROCESSION OF ARTICLES** / published in the National and university library of Republika Srpska / Archives for Technical Sciences, No. 7.