

Tehnički institut / Technical Institute of Bijeljina

---

ZBORNİK RADOVA / BULLETIN OF  
Godina / Year X – No. 18.

---

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 2018

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. Nedo Đurić corresponding member of the  
Academy of Sciences and Arts of the Republic of Srpska, BiH

Editorial Board

Acad. prof. Ph.D. Aleksandar Grubić  
*Academy of Sciences and Arts  
of the Republic of Srpska*  
Prof. Ph.D. Svetlana Stevović  
*Innovation Center of the Faculty of Mechanical  
Engineering, Belgrade, Serbia*  
Prof. Ph.D. Isik Yilmaz  
*Faculty of Engineering, Department of Geological  
Engineering, Sivas, Turkey*  
Prof. dr Vojislav V. Mitić, *Electronic Engineering,  
University of Nis, Serbia*  
Prof. Ph.D. Miroslav Bešević  
*Civil Engineering Subotica, Serbia*  
Robert Sain Ph.D. Scientific adviser *Geological  
Survey of Slovenia*  
Prof. Ph.D. Josip Halamić  
*Natural Sciences and Mathematics Faculty  
Zagreb, Croatia*  
Prof. Ph.D. Milan Kekanović  
*Civil Engineering Subotica, Serbia*  
Prof. Ph.D. Aleksandar Prokić  
*Civil Engineering Subotica, Serbia*  
Prof. Ph.D. Milovan Pecelj  
*Geographical Faculty of Belgrade, Serbia*  
Prof. Ph.D. Jovan Djuković  
*Technology Faculty Zvornik, Republic of Srpska,  
Bosnia and Herzegovina*  
Prof. Ph.D. Dragan Lukić  
*Civil Engineering Subotica, Serbia*

Prof. Ph.D. Svjetlana Radmanović  
*Faculty of Agriculture Belgrade, Serbia*  
Prof. Ph.D. Karolj Kasaš  
*Civil Engineering Subotica, Serbia*  
Prof. Ph.D. Dragan Marković  
*Facultu for Applied Ecology, Belgrade  
Serbia*  
Prof. Ph.D. Radu Bancila, *University Politehnica  
Timisoara, Romania*  
Prof. Ph.D. Milojko Lazić  
*Faculty of Mining and Geology of Belgrade, Serbia*  
Prof. Ph.D. Hazim Hrvatović  
*Mining, Geology and Civil Engineering Tuzla,  
Bosnia and Herzegovina*  
Prof. Ph.D. Bozo Kolonja  
*Faculty of Min. and Geol. Belgrade, Serbia*  
Prof. Ph.D. Wolfgang Francke, *Fakulty od Civil  
Engineering, University of Applied Sciences  
Konstanz, Germany*  
Prof. Ph.D. Petar Santrač  
*Civil Engineering Subotica, Serbia*  
Prof. Ph.D. Mirko Ivković  
*Mining Faculty Prijedor, Republic of Srpska,  
Bosnia and Herzegovina*  
Prof. Ph.D. Vladimir Malbašić  
*Mining Faculty Prijedor, Republic of Srpska,  
Bosnia and Herzegovina*  
Edita Lazarova Ph.D, Scientific adviser  
*Instituute of Geotechnics Slovak Academy of  
Sciences, Slovakia*

*Technical Editor:*  
M. sc. Dijana Đurić

*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:*  
Mojčić d.o.o. Bijeljina

*Circulation:*  
300 copies

# CONTENTS

## GEOLOGY

- Cvijić Ranko, Milošević Aleksej<sup>2</sup>, Čelebić Miodrag, Kovačević Žarko*  
**Geological and economic assesment of the perspective of the mining  
in Ljubija ore region** ..... 1
- Đurić Neđo, Stevović Svetlana, Đurić Dijana, Perišić Milan*  
**Research methodology of railway route Doboj – Zenica,  
section km 103+500 – Maglaj** ..... 9

## ARCHITECTURE AND CONSTRUCTION

- Sepide Abbasi Yusefabad, Behnaz Aminzade, Mohammad Naghizade*  
**An overture to the role of architect worldview in conformity and  
direction of the architectural design** ..... 21
- Suljić Nedim, Kovčić Omer*  
**Analysis of time oscillations of water on lake Modric as  
a multi-purpose reservoir** ..... 31
- Hadi Barghlame, Hojjat Hashempour Gavgani*  
**The investigation base isolator in controlling the response  
of the structures during earthquakes** ..... 41
- Bašić Zahid, Džananović Amir*  
**Route tourist railway Banovići – Zlača** ..... 49

## GEODESY

- Trifković Milan, Nestorović Žarko*  
**Determination of air refraction influence on trigonometric height differences** ..... 55

## ENVIRONMENT

- Radmanović Sijetlana, Nikolić Nataša, Dorđević Aleksandar*  
**Humic acids optical properties of rendzina soils in diverse environmental  
conditions of Serbia** ..... 63
- Ćurčić Milenko, Milinković Dragica, Petrović-Tomanić Olivera, Đurić Dijana*  
**Coenological similarities of diatoms in wells and in other water biotopes  
in Bosnia and Herzegovina** ..... 71

<i>Ilić Predrag, Nešković Markić Dragana, Stojanović Bjelić Ljiljana</i> <b>Variation concentration of sulfur dioxide and correlation with meteorological parameters</b>	.....	81
<i>Ilić Predrag, Nešković Markić Dragana, Stojanović Bjelić Ljiljana</i> <b>Measuring and mapping noise pollution in the city of Banja Luka</b>	.....	89

## **SUPPLEMENT**

***ANALYTICAL PROCESSION OF ARTICLES / published in the National and university library of Republika Srpska / Archives for Technical Sciences, No. 17.***