Tehnički institut / Technical Institute of Bijeljina

ZBORNIK RADOVA / BULLETIN OF Godina / Year VII – No. 12.

UDC: 62 DOI: 10.7251 ISSN 1840-4855 e-ISSN 2233-0046

ARHIV ZA TEHNIČKE NAUKE Archives for Technical Sciences



Bijeljina 2015

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

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, Depatment 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. Radu Bancila, *University Politehnica Timisoara*, *Romania*

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. Wolfgang Francke, Fakulty od

Civil Engineering, University of Applied

Sciences Konstanz, Germany

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

Instituite of Geotechnics Slovak Academy of

Sciences, Slovakia

Robert Sain Ph.D. Scientific adviser

Geological Survey of Slovenia

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; arhiv@arhivzatehnickenauke.com; www.arhivzatehnickenauke.com; <a href="mailto:www.arhivzate

Press: Grafosemberija Bijeljina

Circulation: 300 copies

CONTENT

GEOLOGY

Djuric Nedjo, Djujić Andja Geological evaluation of the state of the route M18, section Foca – Hum, Republic of Srpska	 1
GEOTECHNICS	
Mandžić Kenan, Ibrahimović Adnan Influence of volume weight on gabbro uniaxial compression strength Fejzić Semir, Miljanović Jovo, Fazlić Edin Defining condition of pressure around the underground opening trapezoidal	 9
in shape, substructured by anchors in multilayered deposits investigated by the method of final elements	 19
MINING	
Majstorović Slobodan, Malbašić Vladimir, Čelebić Miodrag Perspectives for development of technical building stone - limestone in the Republic of Srpska	 27
Fazlić Edin, Fejzić Semir Filling the excavated empty area in underground exploitation of the mine "Kreka" aimed at reducing deformations of the surface caused by excavation	 37
Nuhanović Sanel, Hodžić Adnan, Šabović Almir Pore pressure and fracturing pressure influence at boreholes construction on the rock salt deposit "Tetima" Tuzla	 45
CONSTRUCTION	
Stanojlović Danijela Application of construction schedule for monitoring and control of civil engeneering projects	 51
CHEMICAL TECHNOLOGY	
Bekényiová Alexandra, Štyriaková Iveta, Danková Zuzana Sorption of copper and zinc by goethite and hematite	 59

ENVIRONMENT

Radmanović (Cupać) Svjetlana, Đorđević Aleksandar, Nikolić Nataša

Influence of environmental conditions on Carbon and Nitrogen content in Serbian rendzina soils	 67
Knežević Nebojša, Vukić Ljiljna, Knežević Danijela	
Variation impact leachate from landfills Brijesnica on quality of surface	
and ground water	 73

SUPPLEMENT

ANALYTICAL PROCESSION OF ARTICLES / published in the National and university library of Republika Srpska / Archives for Technical Sciences, No. 11.