Academic curriculum vitae

Personal information

Name and surname	**Dado SRKALOVIC**
Adress	Work: University in Tuzla, Faculty for mining, geology and civil engineering (RGGF) Urfeta Vejzagica 2, 75000 Tuzla, BiH
	Home: Rudolfa Vikica 2, Tuzla, BiH
Phone	GSM: 063/ 712-736
Fax	
E-mail/Web	dado.srkalovic@unitz.ba, dadosrkalovic@gmail.com,
Nationality	Bosnia and Herzegovina
Date of birth	11.12.1981.
Gender	male

Present workplace position/occupation

Assistant professor at the department for hydrogeology and hydrotechnics at RGGF Tuzla

Professional experience

Date	2020 – 2024
Position/occupation	**Study director E - Fate**
Main responsibilities	Study director in nutrition and food department/ hydrogeological research/ plant protection products
Name of employer	SGS Institut Fresenius GmbH
Type of business activity	Research

Date	2020 - present
Position/occupation	**Teaching professor at the department for hydrogeology and hydrotechnics at RGGF Tuzla**
Main responsibilities	Maintain exercises with students, investigative works
Name of employer	University of Tuzla
Type of business activity	Teaching and research

Date	2017 - 2020
Position/occupation	**Senior teaching assistant at the department for hydrogeology and hydrotechnics at RGGF Tuzla**
Main responsibilities	Maintain exercises with students, investigative works

Name of employer	University of Tuzla
Type of business activity	Teaching and research
Date	2008 - 2017
Position/occupation	**Junior teaching assistant at the department for hydrogeology and hydrotechnics at RGGF Tuzla**
Main responsibilities	Maintain exercises with students, investigative works
Name of employer	University of Tuzla
Type of business activity	Teaching and research

Education and training

Date	1997
Qualification/degree	Elementary school
Branch of profession and acquirements	Elementary school
Name and type of organization	Johannes-Kepler Realschule Heidelberg, Germany
Date	2002
Qualification/degree	College degree
Branch of profession and acquirements	Commercial college
Name and type of organization	Commercial college Tuzla, Tuzla
Date	2007
Qualification/degree	Dipl. engineer of geology
Branch of profession and acquirements	Geology, applied geology, hydrogeology, hydrogeological research, grouting and injection works, hydrology.
Name and type of organization	RGGF Tuzla, University of Tuzla
Date	2011
Qualification/degree	Magister / Mr.sc. geotechnical sciences
Branch of profession and acquirements	Hydrogeology and hydrotechnics
Name and type of organization	RGGF Tuzla, University of Tuzla
Date	2017
Qualification/degree	PhD / Dr.sc. geotechnical sciences
Branch of profession and acquirements	Hydrogeology and hydrotechnics
Name and type of organization	RGGF Tuzla, University of Tuzla

Scientific works within formal education

Name of work/paper	Characteristics of waterbodies in the south synclinal in the Kreka coal bearing basin-graduate thesis
Institution	RGGF Tuzla, University of Tuzla
Year and place	2007, Tuzla
Summary	Hydrogeological investigation of south syncline and wider region of open pit mine “Dubrave” were performed on the analyses and synthesis of data from the study “Drainage of open pit mine Dubrave”.
Comment	The presented results show that the drainage system on the open pit mine “Dubrave” can be improved and that the water bearing of the sand layers is enormous, so it is necessary to improve the drainage system.

Name of work/paper	*„**Vulnerability determination of groundwater bodies in Northeast Bosnia**“ – Magister Thesis*
Institution	RGGF Tuzla, University of Tuzla
Year and place	Tuzla, 2011, UDK *556.33(497.6-18)*
Summary	The paper determines the determination of groundwater bodies in the area of northeastern Bosnia and the division according to the type of porosity of water bodies. Based on the obtained data, the vulnerability of water bodies was assessed by determining the vulnerability of water bodies, namely DRASTIC, GLA and PI method for water bodies of intergranular porosity and EPIK method for water bodies of karst-crack porosity. The obtained results are presented in tables and graphs on maps in the scale of 1: 300 000.
Comment	The review categorized the paper as professional.

Name of work/paper	*„**Hydrochemical zoning of groundwater in Northeast Bosnia**“ – PhD Thesis*
Institution	RGGF Tuzla, University of Tuzla
Year and place	Tuzla, 2017, *UDK: 556.31/.34(497.6-18)(043.3)*
Summary	The subject of the doctoral dissertation are groundwater in northeastern Bosnia, their chemistry and the origin of groundwater from the aspect of geological composition of the terrain, as well as the connection between the chemistry of groundwater and rocks through which they move. The groundwater of northeastern Bosnia, ie the areas of Tuzla, Gračanica, Zavidovići, Bijeljina, Brčko, Orašje, Domaljevac, Zvornik and partly Kladanj and Vlasenica were investigated. During the preparation of the dissertation, various methods were used, such as: basic chemical analysis, analysis of microcomponents in groundwater, cabinet methods, field methods and many others. Based on 237 chemical analyzes, the types, occurrences and accumulations of mineral, thermal, thermo-mineral, sulfur, salt, hydrocarbonate, magnesium, calcium, sodium, potassium and chloride waters were singled out. Based on the chemistry of groundwater and the geological composition of the investigated terrain, the zoning of groundwater was performed, and maps of the hydrochemical zones of northeastern Bosnia were made. By analyzing and systematizing the collected data, the types of groundwater, their genesis and quality were processed.
Comment	The review categorized the paper as professional.

Publications

Name of work/paper	*Characteristics of the water body of the southern syncline of the Krekan coal basin - excerpt from the thesis.*
Author	***Dado Srkalović***
Institution	RGGF Tuzla, University of Tuzla
Year and place	Proceedings, No.23, 2007, Tuzla.
Summary	The main goal of the research of groundwater bodies of the research area is to make an analysis and reinterpretation of all conducted geological and hydrogeological research in the area, in order to create conditions for improving the drainage conditions of PK "Dubrave".

Name of work/paper	*Characteristics of Gracanica groundwater bodies*
Authors	*Mr. Fuad Alić, Dr.sc. Dinka Pašić-Škripić, Dr.sc. Izet Žigić,* ***Dado Srkalović***

Institution	RGGF Tuzla, University of Tuzla
Year and place	Geological Gazette 37, Federal Institute of Geology Sarajevo, 2008.
Summary	The main goal of the research of groundwater bodies of the research area is to analyze and reinterpret all conducted geological and hydrogeological research in the area, in order to create conditions for the preparation of hydrogeological base, based on which assessments of the degree of research and assess the quality and quantity of groundwater.
Name of work/paper	Groundwater vulnerability in the area of Northeast Bosnia
Authors	***D.Srkalović**, D. Pašić-Škripić, I.Žigić*
Institution	RGGF Tuzla, University of Tuzla
Year and place	38th Conference on current problems of water use and protection - VODA 2009 - Zlatibor, Serbia
Summary	-
Name of work/paper	*Ecological aspects of traditional drinking water suplly by shallow wells in northwest Bosnia*
Authors	*Dinka Pašić-Škripić, Izet Žigić,* ***Dado Srkalović***
Institution	RGGF Tuzla, University of Tuzla
Year and place	Proceedings, No.23, 2007, Tuzla.
Summary	-
Name of work/paper	Vulnerability of groundwater bodies in the area of northeastern Bosnia
Author	***Dado Srkalović***
Institution	RGGF Tuzla, University of Tuzla
Year and place	2011, Tuzla
Name of work/paper	THE VULNERABILITY DETERMINATION OF GROUNDWATER BODIES IN SOUTHEASTERN BOSNIA ACCORDING TO DRASTIC, GLA AND EPIK METHODS
Authors	***Dado Srkalović**, Željka Stjepić Srkalović*
Institution	ARHIV ZA TEHNIČKE NAUKE/ARCHIVES FOR TECHNICAL SCIENCES
Year and place	2014, Bijeljina
Summary	The vulnerability results of groundwaterbodies of southeastern Bosnia are shown in this paper. On the examined area 27 groundwater bodies were extracted, where 12 groundwaterbodies are in rocks with intergranular porosity and 15 groundwaterbodies are in rocks with karst-fissure porosity. All of the groundwater bodies were analysed through DRASTIC, GLA, PI and EPIK vulnerability determination methods, where the gained results are presented tabular. Depending on the porosity type, the vulnerability determination methods were used. So for intergranular groundwaterbodies the best results were gained by DRASTIC and GLA methods, while for the karst-fissure groundwater bodies the best results were gained by the EPIK method, which is the implementation of PI method
Naziv rada	Determination of groundwater vulnerability of water bodies of Havdina Krasevo and Jelah by DRASTIC method
Autori	*Željka Stjepić Srkalović* ***Dado Srkalović***
Institucija na kojoj je rad izrađen	JU Institute for Protection and Use of Cultural, Historical and Natural Heritage of Tuzla Canton and Majlis IZ Doboj
Godina i mjesto	2014, Doboj
Name of work/paper	Terrain characteristics along the route of the Doboj-Rječica railway, stac. km 84+ 400 to km 103+ 500
Authors	*N Đurić, S Tadić, A Babajić,* ***D Srkalović***
Institution	Sixth scientific-professional international conference "Geotechnical aspects of construction". Vrsac, Serbia
Year and place	2015, Vršac, Serbia

Name of work/paper	THE TERRAIN CHARACTERISTICS OF RAILWAY ALONG THE ENTITY BORDER OF FEDERATION BIH-MAGLAJ, SECTION km 103+ 500-MAGLAJ
Authors	*Neđo Đurić, Alisa Babajić, Dijana Đurić,* ***Dado Srkalović****, Milan Perišić*
Institution	ARHIV ZA TEHNIČKE NAUKE/ARCHIVES FOR TECHNICAL SCIENCES
Year and place	2016, Bijeljina
Name of work/paper	
Name of work/paper	The origin of magnesium in the groundwaters of northeastern Bosnia
Authors	***Dado Srkalović***
Institution	ARHIV ZA TEHNIČKE NAUKE/ARCHIVES FOR TECHNICAL SCIENCES
Year and place	2017, Bijeljina
Name of work/paper	CHROMIUM AND NICKEL IN SOIL IN THE WIDER MAGLAJ AREA-CONCENTRATION AND GENESIS.
Authors	*Babajić Elvir, Babajić Alisa, Stjepić Srkalović Željka,* ***Dado Srkalović****, Ustalić Samir, Akmadžić Husnija*
Institution	Arhiv za Tehnicke Nauke/Archives for Technical Sciences
Year and place	Bijeljina, 2017.
Name of work/paper	Thorium (Th) in the soil of the urban part of Tuzla
Authors	*Alen Lepirica Željka Stjepić Srkalović, Elvir Babajić,* ***Dado Srkalović****, Senad Gutić, Semir Ahmetbegović*
Institution	Acta geographica Bosniae et Herzegovinae
Year and place	Sarajevo, 2017.
Name of work/paper	LEAD (Pb) CONCENTRATIONS IN SOIL OF TUZLA'S URBAN AREA
Authors	*Željka Stjepić Srkalović,* ***Dado Srkalović****, Elvir Babajić, Senad Gutić, Alisa Babajić*
Institution	ARHIV ZA TEHNIČKE NAUKE/ARCHIVES FOR TECHNICAL SCIENCES
Year and place	Bijeljina, 2018
Name of work/paper	Chromium and Nickel in Tuzla´s urban area
Authors	*Željka Stjepić Srkalović,* ***Dado Srkalović****, E.Babajić*
Institution	Journal Faculty of mining, geology and civil engineering 6, 55-62
Year and place	Tuzla, 2018
Name of work/paper	Uranium concentrations in the soil of Tuzla's urban area
Authors	*Željka Stjepić Srkalović,* ***Dado Srkalović****, E. Babajić*
Institution	Acta geographica Bosniae et Herzegovinae
Year and place	Sarajevo, 2018
Name of work/paper	Groundwater vulnerability determination of norteastern Bosnia according to DRASTIC method
Authors	*Željka Stjepić Srkalović,* ***Dado Srkalović****,*
Institution	Acta geographica Bosniae et Herzegovinae
Year and place	Sarajevo, 2019
Name of work/paper	Pedogeographic characteristics of Tuzla
Authors	*Željka Stjepić Srkalović, S. Ahmetović,* ***Dado Srkalović****,*
Institution	Acta geographica Bosniae et Herzegovinae

Year and place	Sarajevo, 2019
Name of work/paper	Genesis and geochemical distribution of barium in the soil around Maglaj
Authors	*Željka Stjepić Srkalović,* ***Dado Srkalović****, S. Ustalić, E. Babajić, A. Babajić*
Institution	Second Congress of Geologists in Bosnia and Herzegovina
Year and place	Tuzla, 2019
Name of work/paper	Geomorphological meso-entity Semberija lowland plain
Authors	*Alen Lepirica, Željka Stjepić Srkalović,* ***Dado Srkalović****,*
Institution	Geomorforum 2019: Nizijski reljef Srbije i susednih prostora, 32, 33
Year and place	2019
Name of work/paper	Determination of groundwater vulnerability in NE Bosnia by GLA method
Authors	*Željka Stjepić Srkalović,* ***Dado Srkalović****,*
Institution	ARHIV ZA TEHNIČKE NAUKE/ARCHIVES FOR TECHNICAL SCIENCES
Year and place	Bijeljina, 2020

Projects and studies

Name	***Vulnerability study of Tuzla Canton***
Authors	*Izet Žigić, Dinka Pašić-Škripić****, Dado Srkalović*** *¸ & collaborators*
Year	2008
Summary	The basis for the preparation of the study "Vulnerabilities of Spatial Planning" is Article 16 of the Decree on the Unified Methodology for the Development of Spatial Planning Documents ("Official Gazette of the FBiH", No. 63/04). According to the provisions of Article 16 of the Decree on Uniform Methodology for Drafting Spatial Planning Documents (Official Gazette of the Federation of Bosnia and Herzegovina, No. 63/04), the general goal of drafting the Spatial Vulnerability Study is to introduce a value analysis of the impact of special activities on: - the environment, in particular nature and the human environment, cultural and historical heritage and natural resources, - landscape, especially from the aspect of its recognizability - regional and urban development, from the aspect of space use and possibilities for efficient conduct of special activities. The main objectives of the Tuzla Canton Vulnerability Study are: • Identification of vulnerable areas with a high degree of biological and landscape biodiversity • Identification of possible hazards • Assessment of general natural vulnerability and specific vulnerability of space with regard to types of pressures or contaminants • Assessment of groundwater and surface water vulnerability, assessment of landslides, etc. • Assessment of environmental vulnerability in terms of air pollution pressures and accidents in the chemical industry (impact on humans, flora and fauna, material goods and cultural heritage ...) • Risk evaluation
Comment	Hydrogeological map of Tuzla Canton in M 1: 100,000 and vulnerability maps of water bodies were produced
Name	***Study with the program of hydrogeological works on groundwater abstraction in order to improve the water supply of the municipality of Gracanica***
Authors	*Izet Žigić, Dinka Pašić-Škripić,* ***Dado Srkalović***
Year	Vodoprivreda, Sarajevo i Opština Gračanica , 2008.
Summary	The study was prepared with the aim of providing new, necessary quantities of water for the needs of water supply of Gracanica with new exploratory hydrogeological works.

Comment	-
Name	***Study on the classification and categorization of drinking groundwater reserves in the site "Kristal" Priluk, Živinice***
Authors	*Izet Žigić, Dinka Pašić-Škripić,* ***Dado Srkalović***
Year	D.o.o. „Kristal“ Priluk,2008.
Summary	The study defined the reserves of underground drinking water in the "Crystal" deposit, as the basis for the water bottling plant.
Comment	-
Name	***Study of groundwater characterization of the Sava River Basin***
Authors	*Izet Žigić, Dinka Pašić-Škripić,* ***Dado Srkalović***
Year	Vodoprivreda, Sarajevo and Department of Geology Sarajevo, 2009
Summary	The study was prepared with the aim of characterizing and synthesizing the data of groundwater bodies of the Sava River Basin, ie the sub-basins of Bosnia, Drina, Vrbas and Una.
Comment	-
Name	***Study of the analysis of excavation methods at RMU Đurđevik***
Authors	*Izet Žigić, Izudin Đulović,* ***Dado Srkalović***
Year	University of Tuzla, RGGF, Tuzla 2011
Summary	The study was made with the aim of analyzing the excavation methods in the pit exploitation of RMU Đurđevik to improve the excavation methods and point out possible mistakes regarding the procurement of new automated machinery.
Name	***Hydrogeological research and feasibility study Bistrička rijeka, Srebrenik municipality (hydrogeological mapping program for Bistrica reservoir), Srebrenik municipality, 2010***
Authors	*Izet Žigić, Izudin Đulović,* ***Dado Srkalović,*** *Zijad Ferhatbegović, Dinka Pašić-Škripić*
Year	University of Tuzla, RGGF, Tuzla 2011.
Summary	-
Name	***Study of water protection zones of the spring "Barice" municipality Živinice***
Authors	*Izet Žigić, Izudin Đulović,* ***Dado Srkalović***
Year	Vodoprivredno preduzeće Spreča d.o.o., Tuzla, 2011.
Summary	-
Name	***Study of groundwater characterization of the Una River Basin***
Authors	*Izet Žigić, Dinka Pašić Škripić,* ***Dado Srkalović***
Year	Vodoprivreda FBiH, Sarajevo, 2009.
Summary	-
Name	***Study of groundwater characterization of the Vrbas River Basin***
Authors	*Izet Žigić, Dinka Pašić Škripić,* ***Dado Srkalović***
Year	*Vodoprivreda FBiH, Sarajevo, 2009.*
Summary	-
Name	***Study of groundwater characterization of the Bosna River Basin***
Authors	*Izet Žigić, Dinka Pašić Škripić,* ***Dado Srkalović***
Year	*Vodoprivreda FBiH, Sarajevo, 2009.*

Summary	-
Name	***Study of groundwater characterization of the Drina River Basin***
Authors	*Izet Žigić, Dinka Pašić Škripić,* ***Dado Srkalović***
Year	*Vodoprivreda FBiH, Sarajevo, 2009.*
Summary	-
Name	***Report on geotechnical soil research at the location of the planned Thermal Power Plant "Ugljevik 3", Ugljevik ,. COMSAR ENGINERING WITH "COMSAR ENERGY GROUP" REPUBLIC OF SRPSKA, BANJA LUKA***
Authors	***Dado Srkalović,*** *Milan Perišić, Alisa Babajić, Snežana Tadić*
Year	*Bijeljina, november 2012.*
Summary	-
Name	***Report on geotechnical soil surveys for the main repair of the railway Doboj-Rječica, Rječica-Maglaj and Jelina-Zenica, COWI Belgrade-IPSA Sarajevo, Bijeljina, May / June 2013***
Authors	***Dado Srkalović,*** *Milan Perišić, Alisa Babajić, Snežana Tadić*
Year	*Bijeljina, november 2012.*
Summary	-

Appreciations

Name	One silver and one bronze plaque of the University of Tuzla (2006, 2007)
Institution	University of Tuzla, Faculty of Mining, Geology and Civil Engineering
Subject	For success during studies (average grades above 8.50 and 9)
Summary	In the fourth year of studying geology, the achieved average grade was above 8.50, which is why the University of Tuzla awarded a bronze plaque. In the fifth year of studying geology, the achieved average grade was above 9.00, which is why the University of Tuzla awarded a silver plaque.

Participation in education process

In rang of junior assistant and senior assistant	Hydrogeological research, RGGF - geological department, experimental and theoretical exercises, 2008-present.
	Injection and consolidation, RGGF - geological department, field and theoretical exercises, 2008-present.
	Water Planning and Protection, RGGF - Department of Safety and Assistance, Experimental and Theoretical Exercises, 2008-present.
	Massive subsidence and consolidation, RGGF - BEMS Department, experimental and theoretical exercises, 2008-2011.
	Groundwater dynamics, RGGF - geological department, experimental and theoretical exercises, 2008-present.
	Groundwater exploration and exploitation, BEMS - geological department, field exercises, 2009-present.
	Hydrogeology, RGGF - Geological Department, auditory and laboratory exercises, 2008 - today.
	Hydrochemistry, RGGF - Geological Department, field and theoretical exercises, 2009-2011.
	Groundwater drainage, BEMS - geological department, field and theoretical exercises, 2010-2011.

Personal competencies and skills

Native language **Bosnian**

Additional languages

	Understanding		Speach		Writing
	Listening	Reading	Speach interaction	Speach	
English	5	5	5	5	5
German	5	5	5	5	5

Scientific, professional and social skills

Leading skills in researching and education
Hydrogeology, hydrogeological research, injection and consolidation, groundwater remediation and geoenvironment.

Skills in scientific-researching participation
Hydrogeology, hydrogeological research, injection and consolidation, remediation of groundwater and geoenvironment.

Scientific-researching profession and training
Problems of water supply, drainage of surface mines and mine premises, remediation of groundwater and installation of water protection zones, injection of tunnels and underground premises.
Expert in the field of groundwater monitoring from the aspect of protection from pesticides (environmental fate), OECD regulations and GLP methods of conducting non-clinical laboratory tests (good laboratory practice).
REIC / CETEOR certificate for participation in the seminar on renewable energy sources and environmental protection, Fojnica-August 2015.

Technical skills and competencies

Computer skills and competencies
Excellent knowledge of computer work using a number of specific programs related to the profession Microsoft Word, Excel, Power Point, AutoCad, Corel, Mapinfo, QgiS, ARCGIS, HERE Map Creator, Golden Software Surfer & Didger. Passed the course of informatics Witnet Tuzla and Fida International.

Professional competencies
Passed the state exam for independent research in the field of geology

Miscellaneous
Other skills and competencies arise from a high level of general education related to the profession and science in which I work. Category B driver's license, active driver

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Dr.sci. Dado SRKALOVIĆ, dipl.ing.geol.