Academic curriculum vitae

Personal information

First and last name	**AMIR MEŠKOVIĆ**
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Email/Web	amir.meskovic@untz.ba
Citizenship	Bosnia and Herzegovina
Date of birth	December 8, 1961. Kladanj, Bosnia and Herzegovina
Gender	M
Current workplace/position/title	**Faculty of Mining, Geology and Civil Engineering, Scientific Area Hydrogeology and Hydrotechnics / Full Professor / Doctor of Technical Sciences in the field of geology**

Work experience

Dates	2000 – present, University of Tuzla (RGGF) 1995 - 2000, JKP»Vodovod» Kladanj / director 1989-1995, Municipality of Kladanj / inspector (waterworks) 1987-1989, Secondary School "Milorad Vlačić" - Vlasenica / prof.
Position / occupation / title	Lecturer in the narrow scientific field of Hydrogeology and Hydrotechnics; RGGF Tuzla PhD; full professor
Basic responsibilities and duties	Lectures at undergraduate and postgraduate studies in the narrow scientific field of Hydrogeology and Hydrotechnics
Employer name	University of Tuzla, Faculty of Mining, Geology and Civil Engineering, Univerzitetska 2, Tuzla, BiH
Type of business activity of the employer	Higher education and scientific research
Dates	27.11.2000 - 19.10.2005 .
Position / occupation / title	**Assistant professor**
Basic responsibilities and duties	Lectures at undergraduate and postgraduate studies in the narrow scientific field of Hydrogeology and Hydrotechnics

Employer name	University of Tuzla, Faculty of Mining, Geology and Civil Engineering, Univerzitetska 2, Tuzla, BiH
Type of business activity of the employer	Higher education and scientific research
Dates	19.10.2005 – 20.10.2011.
Position / occupation / title	**Assoc. Prof.**
Basic responsibilities and duties	Lectures at undergraduate and postgraduate studies in the narrow scientific field of Hydrogeology and Hydrotechnics
Employer name	University of Tuzla, Faculty of Mining, Geology and Civil Engineering, Univerzitetska 2, Tuzla, BiH
Type of business activity of the employer	Higher education and scientific research
Dates	20.10.2011.- today
Position / occupation / title	**Full professor**
Basic responsibilities and duties	Lectures at undergraduate and postgraduate studies in the narrow scientific field of Hydrogeology and Hydrotechnics

Education and training

Dates	June 1977.
Qualification acquired	**Primary education**
Field of science and profession, acquired titles and skills	Completed eight-year primary school
Name and type of organization	"Haćam Midhat - Acim" Elementary School, in Kladanj
Dates	June 1981.
Qualification acquired	**V degree of expertise, complex profession**
Field of science and profession, acquired titles and skills	Gymnasium, high school student
Name and type of organization	Gymnasium "Akif Sheremet", Kladanj
Dates	28.12.1987.
Qualification acquired	**VII degree**
Field of science and profession, acquired titles and skills	Hydrogeology, Graduate Engineer in Geology, application of general knowledge in hydrogeology for field work and/or for conducting exercises with students
Name and type of organization	Faculty of Mining and Geology, University of Tuzla
Dates	1997 – 1999
Qualification acquired	**VIII/1 degree**
Field of science and profession, acquired titles and skills	Hydrogeology - Postgraduate studies at the Faculty of Mining, Geology and Civil Engineering. University of Tuzla: Hydrogeology, spec. mine drainage Management - Postgraduate studies at the Faculty of Economics. University of Tuzla: Management strategy
Name and type of organization	Faculty of Mining and Geology, University of Tuzla
Dates	26.04.2000.
Qualification acquired	**VIII/2**

Field of science and profession, acquired titles and skills	Hydrogeology, Doctor of Technical Sciences, groundwater hydrodynamics
Name and type of organization	USA: Jackson State University – Mississippi, specialization Agency for International Development, Washington, USA,
Dates	1998.
Qualification acquired	**spec.wsmanager for** Program "Potable Water Management"
Field of science and profession, acquired titles and skills	Hydrogeology and hydrotechnics, specialization in scientific and professional work, groundwater and surface waters, water supply systems. Establishment and consolidation of an international corporation with colleagues and students.
Name and type of organization	Faculty of Mining, Geology and Civil Engineering, University of Tuzla
Dates	25.01.-29.01.2010.
Qualification acquired	Employee education: Introduction of an integrated quality system ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007
Field of science and profession, acquired titles and skills	Basics of quality system management, methodology for developing basic quality system documents, internal audit, methods for process improvement and advancement

Scientific papers within formal education

And **Works published under the title *DOCENT***

Title of work	***1. "Negative mining-geological phenomena caused by the influence of water"*** Authors: S. Hodžić, H. Bećirović and **A. Mešković**
The institution where the paper was prepared	Scientific and professional journal "Mining", Mining Institute. MINING NO. 19-20, pp. 3-7.
Year and place	Tuzla, 2000.
Summary	Negative mining and geological phenomena caused by the influence of water are significant for assessing the possibility of their application in the exploitation of mineral raw materials. The paper indicates that when designing open-pit mines, it is necessary to forecast and develop measures to prevent or minimize each of the observed mining and geological phenomena by protecting the open-pit mine from surface and groundwater. The scientific contribution of this paper is that through the presented flow charts, developed for negative mining and geological phenomena, it makes it easier for designers to choose basic measures to prevent these phenomena in open-pit mines.
Comment	The work was assessed as *scientific* .
Title of work	**2. " *Hydrogeological characteristics of groundwater aquifers in the upper part*** ***Drinjača River, on the example of the Koturača aquifer, as well as hydrochemical characteristics*** ***groundwater basin".*** Authors: **A. Mešković,** H. Bećirović
The institution where the paper was prepared	Scientific and professional journal "Mining", Mining Institute - Tuzla, MINING NO. 19 -20, p. 7- 23.
Year and place	2000, Tuzla
Summary	Hydrogeological characteristics of groundwater aquifers in the upper part were examined . Drinjača River, on the example of the aquifer - Koturača, as well as the hydrochemical characteristics of the groundwater of the basin . This paper presents the hydrogeological functions of Triassic (T) limestones, which provide a picture of the distribution of groundwater accumulations in them. Aquifers are discharged through permanent springs and wells, whose yield varies, and is directly dependent on precipitation infiltration.

	In addition, this paper treats the qualitative characteristics and manifestation of hydrogeological factors in the Koturača aquifer, which is located in the upper part of the Drinjača river basin.
Comment	The work was assessed as *scientific* .
Title of work	**3. "** ***Resources, reserves and groundwater balance of the upper Drinjača river basin"*** Author: **A. Mešković** .
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXII/1, pp. 77-84
Year and place	2000, Tuzla
Summary	Resources, reserves and groundwater balance of the upper Drinjača river basin have been determined. The paper presents methods and methods for calculating reserves and resources of groundwater in the treated area. In addition, the results of the groundwater balance calculation are presented, which certainly makes an important scientific contribution to this profession, because it is pioneering research in this field and on this issue.
Comment	The work was assessed as *scientific .*
Title of work	***4. "Hydrogeological characteristics of the Gluha Bukovica groundwater aquifer, as well as water quality assessment using quality indices, using the example of the Gluha Bukovica spring and the Bukovica, Drinjača and Osica watercourses"*** Authors: **A. Mešković** , Z. Hadžihrustić..
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXII/1, pp. 85-94
Year and place	2001, Tuzla
Summary	are explained , as well as the assessment of water quality using quality indices, using the example of the Gluha Bukovica spring and the Bukovica, Drinjača and Osica watercourses. This paper presents in detail the hydrogeological characteristics of the Gluha Bukovica groundwater aquifer, as well as the method of assessing water quality using quality indices, using the example of the Gluha Bukovica spring and the Bukovica, Drinjača and Osica watercourses. This paper presents the hydrogeological functions of Triassic (T) limestones, which provide a picture of the extent of groundwater accumulations in them. The aquifers are discharged through permanent springs and wells, whose yield varies and is directly dependent on precipitation infiltration.
Comment	The work was assessed as *scientific.*
Title of work	***5. "Geological and hydrogeological characteristics of the Sapna area on*** **Debeljak** ***microlocality ".*** Authors: **A. Mešković,** H. Bećirović, A. Baraković.
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXIII, pp. 107-113.
Year and place	2001, Tuzla
Summary	Assessment of the geological and hydrogeological characteristics of the Sapna area on the example of the micro-locality Debeljak, contributed to the expert location of the solid waste landfill. This paper presents the (hydro)geological relations of the Sapna area on the example of the locality Debeljak. The Sapna basin, or rather the structural-geological and hydrogeological features of this terrain, are presented within the framework of sediments belonging to the slopes of the eastern part of the Majevica plateau. The Debeljak micro-locality is defined spatially and functionally from a hydrogeological aspect, where aquifers and groundwater collectors are defined, and the (un)perspective of this area in terms of water capacity is assessed.
Comment	The work was assessed as *scientific .*

Title of work	***6. "Important geological characteristics, as well as the geometry of the magnesite deposit - Konjuh, on the example of the ore bodies "Miljevica - 9A" and "Miljevica - 11"*** Authors: **A. Mešković,** H. Bećirović, Z. Hadžihrustić.
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXIII, pp. 101-105.
Year and place	2001, Tuzla
Summary	The assessment of the magnesite deposit is based on important geological characteristics, as well as the geometry of the magnesite deposit - Konjuh, on the example of the ore bodies "Miljevica - 9A" and "Miljevica - 11. From an economic aspect, the most important magnesites in BiH are the magnesites of the Konjuh deposit . This paper presents the geological characteristics, spatial distribution, and angles of incidence of magnesite ore bodies.... The introduction of new exploitation methods should be understood as a research task that will depend on the results of future research, technical achievements, scientific knowledge, as well as financial investments in the exploitation of magnesite on the Konjuh deposit.
Comment	The work was assessed as *scientific .*
Title of work	**7. *"Important factors affecting pump failures in the pit - Sretno, Breza mine"*** Authors: N. Ćosić, **A. Mešković,** H. Bećirović,
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXIV, pp. 27-29.
Year and place	2002, Tuzla
Summary	The paper deals with the issue of important factors that affect pump failures in the pit - Sretno, Breza mine . The paper presents the drainage issues in the Breza Municipal Waterworks and points out important factors that influence pump failures. The possibility of high-quality drainage of mining premises improves production, especially if savings and rationalization of drainage resources are achieved. The pumps, that is, the pumping facilities in the pits of this mine and their correctness and maintenance of the drainage system, represent an important safety and financial moment in the production of coal and in general for the safety of people in the pits.
Comment	The work was assessed as *scientific.*
Title of work	**8. *"Temperature log"* .** Authors: Z.Hadžihrustić, **A.Mešković,** E.Husejnagić,
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXIV, pp. 59-61.
Year and place	2002, Tuzla
Summary	The basic scientific aspects related to the temperature log are presented. The paper deals with the issue of temperature measurement in wells and its application in practice. The role of the temperature log in locating the place where salt water is lost in the Tetima mine formations is described here, all with the aim of contributing to the successful solution of such and similar problems in practice.
Comment	The work was assessed as *scientific.*
Title of work	**9. *"Hydrogeological characteristics of deposits of natural healing mineral water*** ***– Tuzla sorrel Mg ++ (Ljubače / IEB -1)"*** Authors: **A. Mešković,** Z. Hadžihrustić, E. Husejnagić.
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXV, pp. 67-72.
Year and place	2003, Tuzla
Summary	The hydrogeological characteristics of the natural medicinal mineral water deposit – Tuzlanski kiseljak Mg ++ (Ljubače / IEB -1) have been determined and presented. This paper describes the hydrogeological characteristics of the natural

	medicinal mineral water deposit – Tuzlanski kiseljak Mg ++ (Ljubače / IEB -1). In principle, the source of the said mineral water, i.e. the structural-geological and hydrogeological characteristics of this terrain, are described . The Ljubače locality (IEB –1) is defined spatially and functionally from a hydrogeological aspect, where aquifers and groundwater collectors are defined, and the prospects of this area in terms of water capacity are assessed.
Comment	The work was assessed as *scientific.*
Title of work	**10 .*"Macerals of the central coal basin of Banovići"*** Authors: A. Baraković, ***A. Mešković*** , N. Žunić.
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXVI, pp. 11-14.
Year and place	2003, Tuzla
Summary	The macerals of the central Banovići coal basin are presented. The paper presents studies that are closely related to the knowledge of general geology, paleobotany, petrography, groundwater dynamics, chemistry and mineralogy, but for the first time data on the distribution of macerals in the central Banovići coal basin were obtained, and the content of micrinite macerals was determined, which is characteristic only for the petrography of coals.
Comment	The work was assessed as *scientific.*
Title of work	***11. "Capture potential of the aquifer "Sklop" in the municipality of Gračanica with determination of groundwater quality".*** Authors: A. Baraković, **A. Mešković,** E. Husejnagić,
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXV. pp. 15-19
Year and place	2003, Tuzla
Summary	Based on the conducted hydrogeological research, the catchment potential of the aquifer "Sklop" in the municipality of Gračanica was determined and presented, along with the determination of groundwater quality. The paper analyzes the lithological composition of the terrain with the interpretation of experimental groundwater pumping. The basic hydrogeological parameters were determined and the optimal capacity of the exploration and exploitation well for permanent exploitation was determined. By analyzing the radius of influence and the rate of groundwater level return, it was concluded that this terrain is favorable for water supply.
Comment	The work was assessed as *scientific.*
Title of work	***12. "Expected exploitation parameters of well BK-1 (Kiseljak), mineral water "Tuzlanski kiseljak Mg ++"*** Authors: **A. Mešković,** A. Baraković, E. Husejnagić.
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXVI, pp. 47-52.
Year and place	2003, Tuzla
Summary	Based on the conducted hydrogeological research, the expected exploitation parameters of the well BK-1 (Kiseljak), mineral water "Tuzlanski kiseljak Mg++" were determined and presented. The paper presents the expected exploitation parameters of the well BK-1 (Kiseljak), mineral water "Tuzlanski kiseljak Mg". For the calculation of the exploitation parameters of the replacement well BK-1, at the Kiseljak site, key data were obtained by testing the existing well BK-1, while other calculation assumptions were based on knowledge collected during other preliminary research. The conditions for calculating the exploitation parameters of the drilled well were based on several hydrogeological and hydrodynamic data and assumptions.
Comment	The work was assessed as *scientific.*

II Works published under the title *VANR. PROF.*

Title of work	**1. " *Methods of reserve calculation and categorization of groundwater and CO 2 gas reserves on the example of IEB / EB -1. Ljubače locality, Tuzla"***
The institution where the paper was prepared	Authors: **A. Mešković,** D. Pašić – Škripić, Enes Šišić, RGGF Tuzla, Proceedings, 2007. The work published in the Proceedings of the Faculty of Mining, Geology and Construction no. XXXIII, p. 29-35 (ISSN 1512 – 7044)
Year and place	2007, Tuzla
Summary	Through this paper, the hydrogeological functions of the rocks are presented, which give a picture of the extent of underground water accumulations in them. In addition, this paper treats the qualitative characteristics and manifestation of hydrogeological factors in the aquifer that contributed to the reserve calculation and categorization of groundwater and CO 2 gas reserves using the example of IEB / EB -1. Ljubače locality, Tuzla
Comment	The work was assessed as *scientific.*
Title of work	**2. " *Geomorphological - tectonic analysis of the Sprečan Depression"***
The institution where the paper was prepared	Authors: A. Baraković, D. Baraković and **A. Mešković** Faculty of Science Tuzla, Scientific Journal of Geography and Related Sciences, 2007. Paper published in the Scientific Journal of Geography and Related Sciences, 2007. Faculty PM No. 2, pp. 45 -60 (ISSN 1840 – 0779)
Year and place	2007, Tuzla
Summary	The geomorphological - tectonic analysis of the Sprečen Depression is presented. The paper analyzes the lithological composition of the terrain with the interpretation of the geomorphological - tectonic analysis of the Sprečan Depression. The basic geomorphological - tectonic and hydrogeological features of the Sprečan Depression are determined and presented.
Comment	The work was assessed as *scientific.*
Title of work	**3. " *Formation of groundwater aquifers and hydrographic network in the basin"*** ***of the upper course of the Drinjača River"*** Authors: **A. Mešković** , E. Šišić and A. Baraković
The institution where the paper was prepared	PMF Tuzla, Proceedings, 2006. Paper published in Proceedings, 2006. Faculty PM no. 3, p. 139 -149 (ISSN 1840 – 0515)
Year and place	2006, Tuzla
Summary	The hydrogeological characteristics of groundwater aquifers are explained . This paper presents the hydrogeological characteristics of groundwater aquifers in detail. This paper presents the hydrogeological functions of Triassic (T) limestones, which provide a picture of the extent of groundwater accumulations in them. The aquifers are discharged through permanent springs and wells, whose yield varies.
Comment	The work was assessed as *scientific.*
Title of work	**4. " *Geomorphological characteristics of the upper Drinjača river basin in the function of hydrogeological zoning"*** Authors: E. Šišić, **A. Mešković** and A. Baraković
The institution where the paper was prepared	PMF Tuzla, Proceedings, 2006. Paper published in Proceedings, 2006. Faculty PM no. 3, p. 149 - 154 (ISSN 1840 – 0515)
Year and place	2006, Tuzla
Summary	The geomorphological characteristics of the upper Drinjača River basin are presented in the function of hydrogeological zoning. The paper analyzes the lithological composition of the terrain with the interpretation of the geomorphological-tectonic analysis. The basic geomorphological-tectonic characteristics of the upper Drinjača River basin are determined and presented.
Comment	The work was assessed as *scientific.*
Title of work	**5. *"Research on the hydrogeological and hydrodynamic characteristics of karst terrain using the example of the Točkovi spring, Drvar".*** *Authors: Pašić – Škripić, Dinka &* ***Mešković, Amir.***

The institution where the paper was prepared	Proceedings of the Faculty of Mining, Geology and Civil Engineering, no. XXXI. p. 29 -37, (ISSN 1512 – 7044)
Year and place	2007, Tuzla
Summary	This paper presents in detail the hydrogeological characteristics of groundwater aquifers. The hydrogeological characteristics of groundwater aquifers in karst terrain are explained . This paper presents the hydrogeological functions of Triassic limestones and dolomites, which provide a picture of the extent of groundwater accumulations in them. Aquifers are discharged through permanent springs and wells.
Comment	The work was assessed as *scientific.*
Title of work	**6. *"Hydrodynamic characteristics of natural mineral water in a part of the groundwater aquifer at the Kiseljak (BK-1) site, Tuzla".*** Authors: ***Mešković, Amir;*** *Baraković, Amir & Šišić, Enes*
The institution where the paper was prepared	Proceedings of the Faculty of Mining, Geology and Civil Engineering, no. XXXI. p. 37-45, (ISSN 1512 – 7044)
Year and place	2007, Tuzla
Summary	The hydrodynamic characteristics of the natural medicinal mineral water deposit – Tuzlanski kiseljak Mg ++ (Ljubače / BK -1) have been determined and presented. This paper describes the hydrogeological characteristics of the natural medicinal mineral water deposit – Tuzlanski kiseljak Mg ++ (Ljubače / BK -1). In principle, the source of the said mineral water , i.e. the structural-geological and hydrogeological characteristics of this terrain, have been described.
Comment	The work was assessed as *scientific.*
Title of work	**7. *"The influence of well pressures on the efficient operation of the bit".*** *Authors: Hadžihrustić, Zijah;* ***Mesković, Amir;*** *Nuhanović, Sanel & Isaković, Hamo.*
The institution where the paper was prepared	Proceedings of the Faculty of Mining, Geology and Civil Engineering, no. XXXI. p. 65 -71, (ISSN 1512 – 7044)
Year and place	Tuzla, 2007.
Summary	The influence of well pressures on the efficient operation of the bit is significant for assessing the possibility of application in the exploitation of mineral raw materials. The paper indicates that during design it is necessary to know the functional aspects of the influence of well pressures on the efficient operation of the bit.
Comment	The work was evaluated as *professional* .
Title of work	***8."Application of alternative drilling methods at the Tetima mine"*** Authors: *Zijah Hadžihrustić;* ***Mesković Amir;*** *Nuhanović Sanel* ,
The institution where the paper was prepared	RGGF Tuzla, Proceedings, 2005. The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXVIII. pp. 71-79 (ISSN 1512 – 7044)
Year and place	2005, Tuzla
Summary	The paper deals with *the application of alternative drilling methods at the Tetima mine,* qualitative characteristics and manifestation of geological factors. The paper indicates that it is necessary to know the functional aspects of the application of alternative drilling methods during design.
Comment	The work was assessed as *scientific* .
Title of work	***9. "Hydrogeological characteristics of the Seona coalfield in "Banovići Basin"*** Authors: E. Šišić, Dinka Pašić-Škripić and **A. Mešković**
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXVIII. pp. 71-79 (ISSN 1512 – 7044)
Year and place	2005, Tuzla
Summary	This paper presents the hydrogeological characteristics of the Seona coalfield in the Banovići basin. Through exploratory drilling, especially the drilling of exploratory wells S-18a and S-30a, an artesian aquifer was discovered in the Seona coalfield, which is the first case of an artesian aquifer in the Banovići basin,

	which gives a certain specificity to this coal basin. Therefore, the primary task is to define the structure and hydrogeological relations in detail in order to enable safe, rational and technically optimal coal exploitation.
Comment	The work was assessed as *scientific .*
Title of work	***10. "Water bodies in the Triassic limestones of the Kladanj municipality"*** Authors: I. Žigić, **A. Mešković** and Dinka Pašić-Škripić,
The institution where the paper was prepared	Tehnics technologies education management, Vol.3., No.1 2008. Work published in "Technics technologies education management" Yornal of society for development of teaching and business processes in new net environment in B&H, str. 2-6 (ISSN 1840 - 1503) Sarajevo,
Year and place	2008, Sarajevo
Summary	The hydrogeological characteristics of groundwater aquifers are explained . This paper presents in detail the hydrogeological characteristics of groundwater aquifers. This paper presents the hydrogeological functions of Triassic (T) limestones, which provide a picture of the extent of groundwater accumulations in them.
Comment	The work was assessed as *scientific.*
Title of work	***11. "Natural mineral water and CO $_{2\ gas}$, as well as their reserves on the example of IEB -1, Ljubače location, Tuzla"*** Authors: **A. Mešković,** D. Baraković, Abdulamer Abais and Muzijet Muminović,
The institution where the paper was prepared	Tehnics technologies education management, Vol.3., No.2 2008. Work published in "Technics technologies education management" Yornal of society for development of teaching and business processes in new net environment in B&H, str. 57-60 (ISSN 1840 - 1503) Sarajevo,
Year and place	2008, Sarajevo
Summary	Through this paper, the hydrogeological functions of the rocks are presented, which give a picture of the extent of underground water accumulations in them. In addition, this paper treats the qualitative characteristics and manifestation of hydrogeological factors in the aquifer that contributed to the reserve calculation and categorization of groundwater and $CO_{2\ gas\ reserves}$ using the example of IEB / EB -1. Ljubače locality, Tuzla
Comment	The work was assessed as *scientific .*
Title of work	***12. "Calculation of basic hydrogeological parameters using the example of a vertical drilled well (BK-1), Kiseljak locality, Tuzla"*** Authors: **A. Mešković,** D. Baraković, Abdulamer Abais and Muzijet Muminović,
The institution where the paper was prepared	Tehnics technologies education management, Vol.3., No.2 2008. Work published in "Technics technologies education management" Yornal of society for development of teaching and business processes in new net environment in B&H, str. 71-75 (ISSN 1840 - 1503) Sarajevo,
Year and place	2008, Sarajevo
Summary	Basic hydrogeological parameters were determined and presented. deposits of natural healing mineral water - Tuzlan kiseljak Mg ++ (Ljubače / BK -1). This paper describes the hydrogeological characteristics of the reservoir of natural healing mineral water - Tuzlan kiseljak Mg ++ (Ljubače / BK -1).
Comment	The work was assessed as *scientific .*
Title of work	***13. Quantitative - qualitative characteristics of groundwater, Locality "Zatoča" - Stupari*** Authors: **A. Mešković,** D. Pašić - Škripić , M. Sarajlić and H. Bleković
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXIII. pp. 13-19 (ISSN 1512 – 7044)
Year and place	2009, Tuzla
Summary	Based on the conducted hydrogeological research, the expected exploitation parameters of the spring were determined and presented. The paper presents the expected exploitation parameters. For the calculation of exploitation parameters,

	key data were obtained by testing the existing spring, while other calculation assumptions were based on knowledge gathered during other preliminary research.
Comment	The work was assessed as *scientific.*
Title of work	**14. *Piping of the artesian well IEB-1 and hydrogeological monitoring, Ljubače site near Tuzla***
	Authors: E. Zečević, **A. Mešković,** H. Bleković and *A. Šabović*
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, No. XXIII. pp. 35-41 (ISSN 1512 – 7044)
Year and place	2009, Tuzla
Summary	The basic scientific aspects related to the casing of the artesian well IEB-1 and hydrogeological monitoring were presented, all with the aim of contributing to the successful resolution of these and similar problems in practice.
Comment	The work was rated as *comprehensive.*
Title of work	***15. Groundwater dynamics in the narrow area of the "Koturača" spring.***
	Authors: **A. Mešković,** E. Zečević, B. Lazić
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, (special edition). pp. 09-27 (ISSN 1512 – 7044)
Year and place	2010, Tuzla
Summary	The groundwater aquifer , i.e. the structural-geological and hydrogeological characteristics of this terrain, are described. The Koturača locality is defined spatially and functionally from a hydrogeological aspect, where aquifers and groundwater collectors are defined, and the prospects of this area in terms of water capacity are assessed.
Comment	The work was assessed as *scientific.*
Title of work	***16. Conditions and possibilities for alternative water supply in the municipality of Prnjavor***
	Authors: B. Lazić, **A. Mešković,** E. Zečević. Proceedings, 2010.
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, (special edition). pp. 27 -39 (ISSN 1512 – 7044)
Year and place	2010, Tuzla
Summary	Based on the conducted hydrogeological research, the possibility of water supply for this area has been determined and presented, with determination of groundwater quality. The paper analyzes the lithological composition of the terrain with the interpretation of experimental groundwater pumping. The basic hydrogeological parameters have been determined and the optimal capacity for water supply has been determined.
Comment	The work was assessed as *scientific.*
Title of work	***17. Release of underground water in the coal deposit area of PK Šikulje***
	Authors: E. Zečević, **A. Mešković,** B. Lazić.
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, (special edition). pp. 39-47 (ISSN 1512 – 7044)
Year and place	2010, Tuzla
Summary	Through this paper, the hydrogeological functions of the rocks are presented, which give a picture of the extent of underground water accumulations in them. In addition, this paper treats the qualitative characteristics and manifestation of hydrogeological factors in the aquifer that have contributed to the understanding of the position of aquifers in relation to coal seams.
Comment	The work was assessed as *scientific.*
Title of work	***18. Hydrogeological characteristics of the narrow area of the "Zatoča" spring - Stupari***
	Authors: **A. Mešković,** I. Žigić; E. Zečević and M. Sarajlić
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Construction, no. XXXIV. p. 133-139 (ISSN 1512 – 7044)
Year and place	2011, Tuzla

Summary	This paper presents the hydrogeological functions of rocks that provide a picture of the distribution of groundwater accumulations in them. In addition, this paper treats the qualitative characteristics and manifestation of hydrogeological factors in the aquifer that have contributed to the knowledge of the position of aquifers.
Comment	The work was assessed as *scientific.*

Title of work	***19. Ultramafic relics in determining the genesis, structural relationships and quality of clays from the "Sočkovac" deposit.*** Authors: A. Baraković, P. Katanić and **A. Mešković.**
The institution where the paper was prepared	The paper was published in the Proceedings of the Faculty of Mining, Geology and Civil Engineering, no. XXXIV. p. 139-147 (ISSN 1512 – 7044)
Year and place	2011, Tuzla
Summary	This paper presents the functions of rocks that provide a picture of the distribution of clays, ultramafics and groundwater accumulations. This paper treats the qualitative characteristics of clay deposits and the manifestation of ultramafics of the Ozren massif, as well as hydrogeological factors.
Comment	The work was assessed as *scientific.*

III Papers published under the title REGOVNI PROFESSOR

Title of work	**1. "Hydrogeological research of the Kladnja area for water supply".** Authors: Šarić Ć.; **Mešković A.,** Žigić I.& Begić S.
The institution where the paper was prepared	IV Conference of Geologists of Bosnia and Herzegovina with international participation, Association of Geologists of Bosnia and Herzegovina, Institute of Geology, Sarajevo.2011. Work published in "Zbornik sažetaka" p. 112 . (ISSN 1840 - 4073).
Year and place	2011. Sarajevo.
Summary	Based on the conducted hydrogeological research, the possibility of water supply for this area has been determined and presented, with determination of groundwater quality. The paper analyzes the lithological composition of the terrain with the interpretation of experimental groundwater pumping. The basic hydrogeological parameters have been determined and the optimal capacity of the source for water supply has been determined.
Comment	The work was assessed as scientific.

Title of work **2. *Ecological drainage method i landslide rehabilitation using soil electroosmosis***

Authors: **Mešković A.,** Prelić M., Salkić A., Kudić A. & Begtašagić A.

X- Regional Conference….

Institution where the work was done Georex.2017.The work was published in "Georex" p. 105. (ISSN 1512 - 7044).

Year and place 2017. Tuzla.

Brief content Based on the conducted hydrogeological research, it was determined that possibility of application presented *Ecological drainage method i landslide rehabilitation using soil electroosmosis* . The paper analyzes the lithological composition of the terrain with the interpretation of the experiment. The basic hydrogeological parameters in the function of this method.

Comment The paper was assessed as scientific.

Title of work **3. *New knowledge about the geothermal potential of well SL-1 in Slavinovići, Tuzla.***

Authors: Nuhanović S., **Mešković A.,** Nurić S. & Barišić B.

The institution where the work was prepared GLASNIK RGGF Tuzla. 2023. Work published in "GLASNIK RGGF Tuzla" pp. 43. (ISSN 2303 - 5145).

Year and place 2023. Tuzla.

Brief content Based on the conducted hydrogeological research, it was determined that presented geothermal potential of well SL-1 in Slavinovići, Tuzla.

The paper analyzes the lithological composition of the terrain, the basic hydrogeological parameters, as well as the potential of well SL-1.

Comment The paper was assessed as scientific.

Title of work **4. *Hydrothermal products of the Sprečan fault zone***

Authors: **Mešković A.,** Nuhanović S., Hodžić A. & Baraković D.

The institution where the work was prepared GLASNIK RGGF Tuzla. 2023. Work published in "GLASNIK RGGF Tuzla" pp. 62. (ISSN 2303 - 5145).

Year and place 2023. Tuzla.

Brief content Based on the conducted hydrogeological research, the following were determined: presented hydrothermal products of the Sprecan fault zone

The paper analyzes the lithological composition of the terrain, the basic hydrogeological parameters, as well as hydrothermal products of the Sprečan fault zone.

Comment The paper was assessed as scientific.

Tasks in stream regulation and determining erosion coefficient of the Turia river basin

Munir Jahic 1
Amir Meskovic 2
Mufid Tokic 3
Omer Kovcic 4

Institution where the work was created GLASNIK RGGF –a Tuzla.2025. Work in print in “GLASNIK RGGF –a Tuzla”

Comment The paper was assessed as scientific.

Year and place 2025. Tuzla.

Analysis of backfilling by sedimentation of a multi-purpose reservoir using GIS modeling, on the example of the Modrac reservoir

Munir Jahic 1
Amir Meskovic 2
Mufid Tokic 3
Omer Kovcic 4

Institution where the work was created GLASNIK RGGF –a Tuzla.2025. Work in print in “GLASNIK RGGF –a Tuzla”

Comment The paper was assessed as scientific.

Year and place 2025. Tuzla.

Selected publications and presentations	
Publication name	**Hydrogeological and hydrological conditions of water supply in the city of Kladanj,** specialist work. Public Institution National/University Library, Tuzla
Author	Amir Meskovic
Publisher, year and place	RGGF, University of Tuzla, 1998.
Summary	The subject of the specialist work is the hydrogeological and hydrological conditions of the water supply of the city of Kladanj. In geological terms, according to the ratio of carbonate and clay components, aquifers and groundwater insulators can be distinguished. The diverse and variable mineralogical and petrographic composition has also caused their complicated distribution. Based on the conducted hydrogeological research, the possibility of water supply in this area has been determined and presented, with the determination of groundwater quality. The paper analyzes the lithological composition of the terrain with the interpretation of experimental groundwater pumping. The basic hydrogeological parameters have been determined and the optimal capacity of the source for water supply has been determined.
Comment	The work also has practical application in the water supply of the city of Kladanj.
Publication name	**Hydrodynamic characteristics of groundwater in Triassic limestones in the upper Drinjača River basin** . Doctoral dissertation, Public Institution National/University Library, Tuzla
Author	Amir Meskovic
Publisher, year and place	RGGF, University of Tuzla, 2000.
Summary	Bearing in mind that this work has presented a professional-scientific contribution, and also appreciating the basic premise that a scientific theory represents a more or less developed system of general and hypothetical statements, logically arranged into a harmonious whole, which relate to a series of interconnected general principles about the relationships between phenomena, the content and professional-scientific contribution of this work is as follows: - The hydrodynamics of groundwater in the groundwater collectors of the upper Drinjača River basin has been determined and defined. - The dynamics of groundwater movement in groundwater collectors was determined through the coloring of underground flows. - Hydrogeological factors in the basin that influence the hydrodynamics of groundwater have been defined. -Structural-geological relationships in the basin have been determined. - Hydrogeological complexes in the basin have been defined. - It has been determined that the geomorphological and hydrogeological (underground) watersheds do not coincide. -Precise measurements of water levels and flows were carried out on all significant watercourses and springs, and working flow lines were drawn up. - A balance sheet, resources and reserves of groundwater in the basin have been prepared; - The hydrochemistry of groundwater has been defined and a classification into groups and classes has been made (according to the method of SA Shchukarev). - A branched underground network of karst channels, caverns and fissures has been proven. - The relationship between hydrogeological collectors and insulators, as well as their boundaries to other horizons, has been determined.

- The existence of hydrogeological collectors (limestone - T_2) has been established. as independent bodies (olistolites) in the volcanogenic-sedimentary formation (J), which are the most significant carriers of groundwater in the upper Drinjača River basin.
- It has been proven that all springs in the upper Drinjača River basin exclusively appear at the contact of Triassic limestones and the "diabase-hornbeam formation".
- Boundary conditions have been determined and issued;
- The type of traitor has been determined;
- The spatial layout was determined and issued;
- Hydrogeologically, the source of healing mineral water - Muška voda - was investigated in detail.
- Geophysical methods (george radar) were applied in the research of fracture-cavernous porosity in hydrogeological groundwater collectors.

Comment: The work also has practical application in water supply in the Kladanj municipality.

Publication name: **Use of groundwater for water supply** , university textbook, 628.11:551.444(075.8), ISBN 9958-628-10-4, COBISS.BH-ID 14151686, CIP-National and University Library of Bosnia and Herzegovina, Sarajevo

Authors: Amir Mešković and Ljuban Čekić

Publisher, year and place: RGGF, University of Tuzla, 2005, Tuzla.

Summary:

With the increase in population and industrial development, water consumption is also increasing significantly, and with it the number of water pollutants in nature is also growing. The importance of groundwater is becoming increasingly relevant, because it is less likely to be polluted than other types of water. Groundwater intakes are among the most massive hydrogeological and even hydrotechnical facilities. Water supply to large and small settlements, industries, etc. is often carried out with groundwater.
The task and goal of this *book* is to present the basic and essential characteristics of the use of groundwater for water supply. Some of the primary thematic units are covered, such as:

* Water in nature,
* Groundwater, * Main characteristics of groundwater,
* Classification of groundwater,
* Groundwater accumulations (reservoirs), * Groundwater flows, * Boundary and initial conditions,
* Hydrogeological calculation schemes, * Basic flow equations in a porous medium of a real fluid, * Groundwater flow towards water intake facilities, * Basic hydrogeological parameters and calculation methods,
* Groundwater abstractions,
* Groundwater balance,
* Chemical and bacteriological characteristics of groundwater,
* Protection of water sources,
* Data collection for processing and computer use.

Comment: This university textbook fully meets the requirements of scientific and educational literature for the subjects Groundwater Dynamics and Water Intakes and Drainage. The material of the textbook is systematically presented, it is acceptable for students of the Geology Department of the Faculty of Mining, Geology and Civil Engineering, University of Tuzla. This textbook can also be useful for other interested parties interested in this issue, including students of natural sciences and other faculties where geological subjects are studied, as well as students in postgraduate studies.

Publication name: **Water intakes** , university textbook,

556(075.8), 628.11(078.8) ISBN 978-9958-49-034-7, COBISS.BH-ID 18921222, CIP-National and University Library of BiH, Sarajevo

Author: Amir Meskovic

Publisher, year and place: Harfo-graf doo 2011. Tuzla.

Summary	*Water intakes* are used for water supply depending on which and what kind of water we use (atmospheric, underground, surface...). The use and preservation of available water resources must be approached in an extremely deliberate and organized manner. If this is not done, if water is not used rationally, if the best resources are destroyed, if in the broadest sense water protection activities are not improved, there will be great difficulties in providing quality water supply. The extent to which water intakes will be built in a quality and functional manner depends more or less on several factors. The following water intakes are discussed in this book: atmospheric water catchments , surface water catchments, groundwater abstractions and spring water catchments. In practice, it is common to use atmospheric and surface waters as sources when there is a shortage of groundwater. The use of groundwater, e.g. for water supply, has significant advantages over other waters. First of all, these advantages are reflected in the fact that groundwater is in most cases chemically and bacteriologically cleaner and is very often suitable for use in water supply without prior treatment. Groundwater can be extremely clean when water replacement in rocks is moderate, which means that it contains components within the permitted, i.e. prescribed limits for human **use. In many parts of the world, there is a shortage, gradual** destruction and increased pollution of freshwater sources, due to: improper handling of wastewater (polluted), industrial and municipal solid waste; loss of natural resources, irrational use, deforestation and poor application of agricultural techniques (discharge of pesticides and other chemicals into water); construction of dams and reservoirs, diversion of river flows, irrigation, etc. Along with the strong trend of increased needs for quality drinking water, the process of degradation of the already limited available water resources is even more pronounced, which makes the issue even more complex. The necessary quantities of water can only be provided with great efforts. Water is not cheap so that users and those who provide water supply can be indifferent to the type of water they are supplied with, at what price, what is the safety, quality, what is the perspective...
Comment	This university textbook fully meets the requirements of scientific and educational literature for the subjects Groundwater Dynamics and Water Intakes and Drainage. The material of the textbook is systematically presented, it is acceptable for students of the Geology Department of the Faculty of Mining, Geology and Civil Engineering, University of Tuzla. This textbook can also be useful for other interested parties interested in this issue, including students of natural sciences and other faculties where geological subjects are studied, as well as students in postgraduate studies.
Publication name	**Water supply** , university textbook, 556(075.8), 628.1(078.8) ISBN 978-9958-49-036-1, COBISS.BH-ID 18964486, CIP-National and University Library of Bosnia and Herzegovina, Sarajevo
Author	Amir Meskovic
Publisher, year and place	Harfo-graf doo 2011. Tuzla.
Summary	Quality *water supply is one of the key issues for people's lives and is not just a problem of* the water supply system or the local community, but it is also a problem of all citizens in the local community who should be interested in what kind of water they will use for their needs. These are completely justified questions and opinions that indicate that this problem should be considered from a hydrogeological and hydrotechnical aspect and with the presentation of all arguments that would defend the position on the need to use these or those water resources, which is the key scientific question in this book. In the global approach to water supply, several variants are usually envisaged that relate to the locations for using aquifer or purified surface water in the overall water supply. Fragments of water supply structures from the distant past prove that the problem of bringing water to consumers has long been given great attention. The most famous ancient water supply systems are, for example, the Iranian *Qanats* and Roman *aqueducts* . Given that the methodological approach to the problem of water supply, water supply in itself represents a complex solution to specific multidisciplinary tasks, which are based on clarified hydrogeological conditions of the aquifer environment,

hydrodynamic flow conditions, hydrotechnical design solutions, as well as established physicochemical processes of interaction between pollutants and the hydrogeological environment, all these factors will be presented in this book to a certain extent. First, it is necessary to examine in detail the hydrogeological characteristics of the specific studied terrain, because solving the problem of water supply, pollution and water protection cannot be imagined without knowing the conditions for the formation of water bodies, the types of aquifer sediments and all the geological and hydrogeological features that arise from this.
The use of groundwater (from aquifers) for water supply has significant advantages over other waters. Groundwater can be extremely clean, in the case when the water replacement in the rocks is moderate, which means that they contain components within the permitted, i.e. prescribed limits. The importance of other waters for water supply, such as surface waters, is also great. Giving priority to surface waters over groundwater, or vice versa, can only be conditioned by the quality and quantity of water, i.e. the rationality and economy of the water intake and water supply system. The protection of waters from pollution, which are used or planned to be used for use (drinking), does not only include the protection of the water intake consisting of the source and the catchment water intake, i.e. the administratively determined sanitary protection zones around it. This is a far more complex problem. All negative impacts must be considered regardless of the distance of the source from the pollution hotspot. Precisely because of all these different impacts, the protection of the source must be observed and resolved from various multidisciplinary aspects. Providing high-quality and hygienically safe water is undoubtedly one of the most important tasks of scientists working on this issue. This includes not only drinking water, but also water for a number of industries: the food industry, the pharmaceutical industry, and others. Undesirable water quality characteristics are primarily caused by unfavorable geographical and geological characteristics of the narrower or wider area of the water source. Such waters need to be conditioned and disinfected, or prepared for human use. The uncontrolled development of industry, urban planning and agriculture, which results in the production of a number of pollutants and burdens in the water, often contributes to this situation. Therefore, *raw water* from the source must most often be subjected to an appropriate preparation and treatment process in order to obtain the required quality. The microbiological aspect of the quality of drinking water, or the food industry, is the most important. Therefore, great attention is paid to disinfection in water preparation. However, the fact that previous research has identified a certain number of highly toxic disinfection by-products, along with the growing problem of water pollution, indicates the necessity of conducting intensive scientific research in the field of drinking water preparation and finding alternative disinfectants that would minimize the formation of disinfection by-products in the treated water.

Comment

This university textbook fully meets the requirements of scientific and educational literature for the subjects Groundwater Dynamics and Water Intakes and Drainage. The material of the textbook is systematically presented, it is acceptable for students of the Geology Department of the Faculty of Mining, Geology and Civil Engineering, University of Tuzla. This textbook can also be useful for other interested parties interested in this issue, including students of natural sciences and other faculties where geological subjects are studied, as well as students in postgraduate studies.

Publication name

Geology Betting , Book,

Author

Amir Meskovic

Publisher, year and place

UNIVERSITY OF TUZLA. 2016. Tuzla.

Summary

The author of this book felt a great need to publish the results of geological research from the area of the Kladanj municipality and to study and investigate the

treated area in more detail from the aspect of geological structure in terms of: the occurrence of mineral resources, prevention and rehabilitation of landslides, as well as water supply, i.e. from the aspect of engineering geology, mining geology, hydrogeology, hydrology and mineral resource deposits. In order to study the geology of the terrain, it was necessary to determine many input parameters through detailed geological research. By investigating the real values of the parameters of the geological environment, numerous relations between various factors and components of the geological relations of the studied area were studied and quantitatively investigated. The following were elaborated: lithology, stratigraphy, instructions were given on the prevention and rehabilitation of landslides, as well as the regularity of groundwater movement in the geological environment with the aim of quantitatively assessing the conditions for the formation and persistence of the regime, balance, reserves, resources and quality of groundwater, which are variable under the influence of natural geological and artificial factors.

In the Kladanj area, practical and theoretical geological assumptions rely, on the one hand, on the lithological-stratigraphic regularities of the distribution of limestone rock masses (T_2) and various rocks of the volcanogenic-sedimentary formation ($J_{2,3}$) and on the other hand, on e.g. physical-mathematical laws and assumptions of general hydraulics that determine the unity of various forms of groundwater movement. Due to the complex hydrogeological and hydrodynamic relations in the treated terrain, as an environment of very pronounced discontinuous exposed karst, in conditions of a fissure-cavernous environment, complex geological relations have been investigated. In order to define the hydrodynamics of groundwater, basic hydrogeological research has been carried out, which, among other things, indicated the qualitative-quantitative characteristics of groundwater, as well as the rational use of water resources and groundwater reserves. Each hydrogeological collector of groundwater represents a complex natural system with very diverse processes that take place in that system. Therefore, the approach to the given problem itself required a systematic approach, which in hydrogeology is related to a more precise mathematical representation of its traditionally non-mathematical areas: mapping, landslide rehabilitation, research of groundwater and surface waters, hydrochemistry, etc. The study of groundwater is being carried out by an increasing number of scientific research institutions, design and implementation organizations. Therefore, the presentation of the research carried out through this work has the task of suggesting some approaches to research for various purposes, to emphasize the need for a creative approach and maximum adaptation to the specifics of the research area, to point out the mandatory systematic and complex approach to solving practical tasks, as well as the need to apply modern methods in the study of groundwater hydrodynamics. The main subject of research in this work is the geological structure of the terrain, as well as the extensive network of underground channels, caverns and cracks in groundwater collectors - Triassic limestones of the Kladanj area. Due to the specific hydrogeological conditions in the basin, it was necessary to determine and study the hydrodynamics of groundwater and thus contribute to both theoretical and scientific knowledge about this issue, as well as practical economic aspects of water supply.

Comment

This book fully meets the requirements of scientific and educational literature, especially for the subjects of Groundwater Dynamics and Water Intakes and Drainage. The material of the book is systematically presented, it is acceptable for students of the Geological Department of the Faculty of Mining, Geology and Civil Engineering, University of Tuzla. This book can also be useful for other interested parties interested in this issue, including students of natural sciences and other faculties where geological subjects are studied, as well as students in postgraduate studies.

SELECTED PROJECTS AND PRESENTATIONS

Name	**Natural mineral water protection zone project "Tuzlan kiseljak Mg++" /EB -1/.**
Authors	Amir Mešković et al.
Publisher, year and place	RGGF, Tuzla, 2007.
Summary	Complex (hydro)geological research has been conducted and the first protection zone of the natural mineral water "Tuzlanski kiseljak Mg++" /EB -1/ has been designed.
Comment	The project is related to applied (hydro)geological research
Name	**Study on the quality, classification and categorization of underground mineral water reserves "Tuzlanski kiseljak Mg++" (EB-1; BK-1).**
Authors	Amir Mešković, Enver Brkić and others.
Publisher, year and place	RGGF, Tuzla, 2003.
Summary	Complex (hydro)geological research is presented in the Study, showing the quality, classification and categorization of the reserves of underground mineral water "Tuzlanski kiseljak Mg++" (EB-1; BK-1).
Comment	The report is related to applied (hydro)geological research
Name	**The main mining project for the exploitation of natural mineral water "Tuzlanski kiseljak Mg++" (IEB -1).**
Authors	Amir Mešković, Omer Music, Enver Brkić, Ismet Softić, Nusret Mujagić and Fahrudin Brčaninović
Publisher, year and place	RGGF, Tuzla, 2004.
Summary	Complex (hydro)geological research was the basis for the preparation of the Main Mining Project for the exploitation of natural mineral water "Tuzlanski kiseljak Mg++" (IEB -1). It envisages the exploitation and production of the said water.
Comment	The project is related to applied (hydro)geological research
Name	**The main mining project for the exploitation of natural mineral water "Tuzlanski kiseljak Mg++" (BK -1).**
Authors	Amir Mešković, Omer Music, Enver Brkić, Ismet Softić, Nusret Mujagić and Fahrudin Brčaninović
Publisher, year and place	RGGF, Tuzla, 2004
Summary	Complex (hydro)geological research was the basis for the preparation of the Main Mining Project for the exploitation of natural mineral water "Tuzlanski kiseljak Mg++" (BK-1). It envisages the exploitation and production of the said water.
Comment	The project is related to applied (hydro)geological research
Name	**Project of detailed hydrogeological research of natural mineral water – Celvik, Tešanj**
Authors	Amir Mešković et al.
Publisher, year and place	RGGF, Tuzla, 2005.
Summary	All necessary documentation has been completed for the needs of detailed hydrogeological research of natural mineral water – Celvik, Tešanj
Comment	The project is related to applied (hydro)geological research
Name	**Project of detailed hydrogeological research of natural drinking water – Tešanj Diamond, Tešanj**
Authors	Amir Mešković et al.
Publisher, year and place	RGGF, Tuzla, 2005.
Summary	All necessary documentation for detailed hydrogeological research is presented.
Comment	The project is related to applied (hydro)geological research
Name	**Study on the classification, categorization and calculation of natural drinking water reserves – Tešanj Diamond, Tešanj**
Authors	Amir Mešković et al.
Publisher, year and place	RGGF, Tuzla, 2006.

Summary	Complex (hydro)geological research is presented in the Study, showing the quality, classification and categorization of the reserves of underground mineral water Tešanjski dijamant, Tešanj
Comment	The report is related to applied (hydro)geological research
Name	**Project of protection zones of natural mineral water "Princes", Tešanj**
Authors	Amir Meskovic, Nadja Comic
Publisher, year and place	"GEORAD" doo Tuzla, Society for Engineering, Design and Geological Research, 2007, Tuzla
Summary	detailed hydrogeological research for the purpose of designing protection zones is presented .
Comment	Project related to applied hydrogeological research
Name	**Project of detailed hydrogeological research of natural drinking water – Meli, Kladanj**
Authors	Amir Meskovic, Nadja Comic
Publisher, year and place	"GEORAD" doo Tuzla, Society for Engineering, Design and Geological Research, 2007, Tuzla
Summary	All necessary documentation for detailed hydrogeological research is presented.
Comment	Project related to applied hydrogeological research
Name	**Project of detailed hydrogeological research of underground drinking waters at the site of Priluk, Živinice.**
Authors	Amir Meskovic, Irfan Kadic
Publisher, year and place	"GEO" doo Tuzla, Society for Engineering, Design and Geological Research, August 2008, Tuzla
Summary	All necessary documentation for detailed hydrogeological research is presented.
Comment	Project related to applied hydrogeological research
Name	**Project of detailed hydrogeological research of natural mineral waters at the Muška voda site, Kladanj.**
Authors	Amir Mešković et al.
Publisher, year and place	RGGF, University of Tuzla, 2007, Tuzla
Summary	All necessary documentation for detailed hydrogeological research is presented.
Comment	Project related to applied hydrogeological research
Name	**Project: "Ecological method of drainage and landslide rehabilitation using soil electroosmosis".** Scientific and research projects of the Ministry of Education and Science of the Canton of Tuzla ("Fund for Scientific and Research Work"), project approved by the Government of the Canton of Tuzla, number: 02/1-14-3665/07. dated 19.12.2007.
Authors	Amir Mešković; Elvir Babajić and Kenan Mandžić
Publisher, year and place	RGGF, University of Tuzla, 2007, Tuzla
Summary	All the necessary documentation for the application of the ecological method of drainage and rehabilitation of landslides using soil electroosmosis is presented.
Comment	Project related to applied hydrogeological research
Name	**Study: Impact of research works and exploitation of underground (drinking) water "Šerićki izvor" on surrounding facilities, Šerići (Hodžići) locality, Živinice municipality.**
Authors	Amir Mešković et al.
Publisher, year and place	RGGF, University of Tuzla, 2007, Tuzla
Summary	All necessary documentation for needs is shown Presentation of the impact of research works and exploitation of underground (drinking) water "Šerićki izvor" on surrounding facilities, Šerići (Hodžići) locality, Živinice municipality
Comment	The study is related to applied hydrogeological research

Name	**Study on the classification, categorization and calculation of natural drinking water reserves – Gudaja, Livno**
Authors	Amir Mešković, Alma Bencun et al.
Publisher, year and place	"GEA" doo Tuzla, Society for Engineering, Design and Geological Research, Tuzla 2006.
Summary	Complex (hydro)geological research is presented in the Study, showing the quality, classification and categorization of groundwater reserves.
Comment	The report is related to applied hydrogeological research
Name	**Project of detailed hydrogeological research of natural drinking waters at the Donja obodnica site, Tuzla.**
Authors	Amir Mešković, Alma Bencun et al.
Publisher, year and place	"GEA" doo Tuzla, Society for Engineering, Design and Geological Research, Tuzla 2006.
Summary	All necessary documentation for detailed hydrogeological research is presented.
Comment	The project is related to applied hydrogeological research.
Name	**Study: "Geological and hydrogeological research in the function of protective zones at the sites of Zatoča, Sedam vrela and Tarevčica – Stupari, Kladanj municipality".**
Authors	Amir Mešković, Irfan Kadić and others.
Publisher, year and place	"GEO" doo Tuzla, Society for Engineering, Design and Geological Research, Tuzla 2007.
Summary	Complex (hydro)geological research is presented in the Study, in the function of protective zones at the sites of Zatoča, Sedam vrela and Tarevčica – Stupari, Kladanj municipality.
Comment	The report is related to applied hydrogeological research
Name	**Study on the current condition, causes, consequences and measures to eliminate current damage to the asphalt road, Gornja višća locality , Živinice municipality.**
Authors	Amir Mešković et al.
Publisher, year and place	Municipality of Živinice, 2009.
Summary	All necessary documentation for the needs of detailed geological research is presented
Comment	The report is related to applied geological research
Name	**Elaboration on rehabilitation of part of the bank of the Spreča River (supporting structure of the Tuzla water supply bridge), location: Opel service station (Đug auto), Živinice municipality.**
Authors	Amir Mešković et al.
Publisher, year and place	Municipality of Živinice, 2010.
Summary	Complex (hydro)geological research is presented in the Study, in the function of rehabilitating a part of the bank of the Spreča River (supporting structure of the Tuzla water supply bridge), location: Opel service station (Đug auto), Živinice municipality.
Comment	The report is related to applied hydrogeological research
Name	**Study of natural conditions, Bašigovci lake locality, Živinice municipality**
Authors	Amir Mešković et al.
Publisher, year and place	Municipality of Živinice, 2007.
Summary	All necessary documentation for the construction of a recreational center is presented, Bašigovci Lake location, Živinice municipality
Comment	The study is related to applied hydrogeological research
Name	**Project of detailed hydrogeological research of natural drinking waters , locality Šerići (Hodžići), municipality Živinice.**

Authors	Amir Mešković, Irfan Kadić and others.
Publisher, year and place	"GEO" doo Tuzla, Society for Engineering, Design and Geological Research, Tuzla 2008.
Summary	All necessary documentation for the needs of detailed hydrogeological research of natural drinking waters , Šerići (Hodžići) locality, Živinice municipality, is presented.
Comment	The project is related to applied hydrogeological research.

Recognitions and awards

Name	
Institution	
Reason (reason)	
Short description	
Comment	

Membership in professional associations

Name of the association	**Association of Geologists of Bosnia and Herzegovina** , Sarajevo
Brief description of the association	The Association of Geologists was founded on 24.06.2004. at Muška Voda near Kladanj when 62 geologists from Bosnia and Herzegovina attended. The Association organizes conferences to promote the profession and expertise, exchange ideas, technologies, necessary critical thinking and establish standards. So far, it has organized 3 conferences: The First Conference in 2004 at Muška Voda near Kladanj, the Second Conference in 2006 in Teslić and the Third Conference in 2008 in Neum. Papers were presented at the conferences and Proceedings were printed. Since 2004, the Association of Geologists of Bosnia and Herzegovina has been the 166th member of the International Union of Geological Sciences (IUGS).
Association address / web reference	Ilidza, Ustanička 11 E-mail: udruzenje.geologa.bih@gmail.com
Position in the association	Member
Name of the association	**Geotechnical Society of Bosnia and Herzegovina,** Tuzla
Brief description of the association	The society was founded at the Faculty of Mining, Geology and Civil Engineering in Tuzla in 2008. It deals with the improvement of geotechnics, organizes professional seminars, publishes professional literature, and cooperates with state and other organizations and professional associations abroad.
Association address / web reference	Univerzitetska 2, Tuzla; geotehnika@untz.ba
Position in the association	Member
Comment	

Participation in the teaching process

As an assistant professor	2000 -2005. RGGF. Department of Hydrogeology and Hydrotechnics Subject: Water intakes and drainage; Dynamics of underground water University of Tuzla, undergraduate and postgraduate studies
With the title of associate professor	2005 - 2011. RGGF. Narrow scientific field Hydrogeology and hydraulic engineering Subject: Water intakes and drainage; Dynamics of underground water

As a full professor	2011- present. RGGF. Narrow scientific field Hydrogeology and hydraulic engineering Subject: Water intakes and drainage; Dynamics of underground water
Other	

Mentoring in the preparation of master's and doctoral theses

Master's theses	1.- *Sanda Midžić* , B.Sc. Civil Engineering, Master's thesis entitled: "Impact of mine waters on the environment" RGGF. University of Tuzla. Tuzla. 2.- *Nermin Ćosić,* B.Sc.geol., specialist paper entitled: "Determining the operational reliability of the drainage system in the pits of Kamenice and Sretno, RMU Breza". RGGF. University of Tuzla. Tuzla. 3 .- *Spec. Nermin Ćosić* , B.Sc. in Geology, Master's thesis entitled: "Relationship between technological and structural characteristics of pumping plants and other equipment for dewatering in the function of the production process in the pits: *Kamenica and Sretno , Breza* brown coal mine in Breza" RGGF. University of Tuzla. Tuzla. 4.- *Mustafa Sarajlić,* B.Eng., Master's thesis entitled: "Optimization of the technological process of exploitation of natural mineral water Tuzlanski kiseljak Mg^{++} in function of hydrogeological characteristics Kiseljak – Ljubače, Tuzla". RGGF, University of Tuzla. Tuzla. 5. *Abdulamer Abais* , B.Sc. in Geology, Master's thesis entitled: "Characteristics of water intake facilities in the function of water supply in the area of the Sanski Most municipality". RGGF. University of Tuzla. Tuzla. 6. *Branimir Lazić,* B.Sc. in Geology: Master's thesis entitled: "Hydrogeological characteristics of Quaternary sediments in the Sremska Mitrovica area with optimization of water supply facilities". RGGF, University of Tuzla. Tuzla.
Doctoral theses	1.- *Hasan Bleković* , B.Sc., doctoral thesis entitled: " *Dynamic groundwater levels in the Kreka coal basin".* RGGF. University of Tuzla. Tuzla.

Research projects and studies

Completed projects	1. Study: Impact of research works and exploitation of underground (drinking) water "Šerićki izvor" on surrounding facilities, Šerići (Hodžići) locality, Živinice municipality. 2. Study of natural conditions, Bašigovci lake location, Živinice municipality 3. Project: "Ecological method of drainage and landslide rehabilitation using soil electroosmosis". Scientific and research projects of the Ministry of Education and Science of the Canton of Tuzla ("Fund for Scientific and Research Work"), project approved by the Government of the Canton of Tuzla, number: 02/1-14-3665/07. dated 19.12.2007.
Ongoing projects	
Planned projects (expected, in preparation)	

Personal skills and competencies

Native language **Bosnian**

Other languages

	Understanding		Speech		Writing
	Listening	Reading	Voice interaction	Speech	
English language	B2	B2	B2	C1	C1
Russian language	C1	C2	B2	B2	C1

Scientific, professional and social competences

Competencies for conducting scientific research and teaching in higher education	Participation in and management of domestic and international scientific research projects and experience in the teaching process in higher education
Competencies for participation in scientific research projects	Participation in applied research and participation and management of domestic and international scientific research projects
Scientific and research interest (occupation) and current training	Hydrogeology and hydrotechnics: Hydrogeological research, water supply, protection of groundwater and surface water....
Planned training	Protection of groundwater and surface water.
Social skills and competences	Court expertise in the profession, sense of management
Organizational skills and competencies	Teamwork with older and younger colleagues and students.
Technical skills and competencies	Hydrogeology and hydraulic engineering
Computer skills and competencies	Windows, Office (Word, Excel, Power Point), Corel, professional software.
Artistic skills and competencies	decorations
Other skills and competencies	Sport (karate), horticulture

Other information

Contributions All documentation on previous education and training, formal education, as well as work experience and career progression is in my personal file at the University of Tuzla.

CANDIDATE BIOGRAPHICAL DATA

- Name and surname: ***Amir MEŠKOVIĆ*** , Doctor of Technical Sciences in the field of geology,
- Employed: University of Tuzla, in the scientific and teaching title of FULL PROFESSOR at Faculty of Mining, Geology and Civil Engineering.

Born on 08.12.1961. in Kladanj, where he finished primary school and high school. He completed his undergraduate studies in Tuzla and obtained a diploma of graduate engineer in geology (department of Applied Geology) at the Faculty of Mining and Geology in Tuzla, in 1987. After completing his studies, he worked as a professor at the Secondary Technical School "M. Vlačić" in Vlasenica, then as an inspector in water management in the Municipal Assembly of Kladanj, then as the director of the Public Utility Company "Vodovod" in Kladanj.
In 1988, he passed the professional exam in the field of geology.
From 1998 to 2000, he was part-time engaged in teaching at the Faculty of Economics and Business Administration of the University of Tuzla as *a Distinguished Expert in Economics* , and has been employed permanently since December 1, 2000 until today.
To the scientific and teaching title of *assistant professor* was elected on 27.11.2000. in the subject *Water intakes and drainage* , and on 19.10.2005. he was elected to the scientific and teaching title *of associate professor* for the narrow scientific field "Hydrogeology and hydrotechnics".
He completed his postgraduate studies at the Faculty of Economics, University of Tuzla, in 1996/97, and in the same year he completed his postgraduate studies at the Faculty of Economics, University of Tuzla, and in 2000 he defended his doctoral dissertation at the Faculty of Economics, University of Tuzla, on the topic *"Hydrodynamics of groundwater in Triassic limestones of the upper Drinjača River basin".*
- He completed his professional specialization in the USA in 1998. Program "Potable Water Management" (Agency for International Development, Washington, USA, 1998. and Jackson State University - Mississippi.
- He is a permanent Court expert and president of the Assembly of the Association of Court Experts of the Republic of Turkey.
- The main work tasks performed at the RGGF are tasks of educational and research content.
- During his work at the RGGF, and after his election to the title of *Associate Professor,* he published a total of: seventeen (17) scientific papers, one professional paper and one review paper, two books, and was a mentor for one master's and one doctoral thesis.

In the past period, he has been a reviewer of several books, scientific and professional papers.
In the process of educational and research activities, he worked permanently on the development of new thematic units in the field of *hydrogeology* with special emphasis on the application of modern methods and technologies.
He worked on the development and revision of a large number of projects, reports, studies and expertise in the field of geology and hydrogeology. In addition, he was involved in research on solving water supply problems in several municipalities in Bosnia and Herzegovina and research for the rehabilitation of a large number of landslides.
On October 20, 2011, he was elected to the highest scientific and teaching title of FULL PROFESSOR at the University of Tuzla.

Since the last election, he has been mentor/president/member:
- commission for the defense of diploma theses,
- committee for evaluation and defense of master's theses,
- committee for assessing the candidates' requirements for obtaining the scientific degree of Doctor of Science and the suitability of the topic for writing a doctoral dissertation,
- committee for evaluation and defense of doctoral dissertations,
- commission for the validation of foreign diplomas,
- selection committee for all scientific titles at the RGGF Tuzla,
- book review committee,
- of the editorial board *of Proceedings* of the RGGF,
- commissions/councils for the development of the Regulatory Plan in some municipalities of Tuzla Canton,
- Council of the Technical Sciences Group of the University of Tuzla (in the field of geology),
- So far (since 1998) he has successfully served as an expert witness in many cases for municipal and cantonal courts in the field of (hydro)geology,

- He is the President of the Assembly of Permanent Court Experts of the TK,
- From 2001 to 2008 he was the Head of the Department of *Hydrogeology and Hydrotechnics at* the RGGF,
- He is a member of the Association of Geologists of Bosnia and Herzegovina,
- Served in imperfect English and Russian.
- Membership in SCHOOL BOARDS until now:

Kladanj High School, president (1998-2001); JU Elementary School Kreka Tuzla, president (2010-2012); JU Middle School of Economics Tuzla, member (2011-2012).