

**Academic
Curriculum vitae**



Personal information

Name and surname **Jelena Marković**

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E-mail/Web jelena.markovic@untz.ba

Nationality BiH

Date of birth 14.05.1967.

Pole Female

Current position/position/title University of Tuzla-RGGF/Full Professor/Doctor of Technical Sciences

Citations ResearchGate (Citation count: 13; 2h-indeks);
Google Scholar Citations (Citation count:24; 2h-indeks)

Work experience

Dates 2012 – present

Position / occupation / title Teacher/Full Professor/Doctor of Technical Sciences in the field of mining

Basic Responsibilities and Duties Lectures on courses: Natural hazards, fires and explosions; Chemical and physical measurements in mining; Natural Hazards and Disasters, Physical hazards; Theory of combustion and explosion; Fire and explosion protection; Forensic Engineering; Natural hazards and expert analyses; Disaster Management; Fire Engineering

Employer name Faculty of Mining, Geology and Civil Engineering, University of Tuzla

Type of business activity of the employer Education and Scientific Research

Dates 2006. – 2012.

Position / occupation / title Teacher/Associate Professor/Doctor of Technical Sciences in the field of mining

Basic Responsibilities and Duties Lectures on courses: Natural hazards in mines; Fires and explosions in mining and industry; Theory of combustion and explosion; Natural Hazards and Disasters, Natural and Fire Hazards, Fire and Explosion Expert Analysis, Fires and

explosions in drilling exploitation; Environmental protection; Forensic Engineering and Risk Management, Physical hazards

Employer name	Faculty of Mining, Geology and Civil Engineering, University of Tuzla
Type of business activity of the employer	Education and Scientific Research
Dates	2001.- 2006.
Position / occupation / title	Teacher/Assistant Professor/Doctor of Technical Sciences in the field of mining
Basic Responsibilities and Duties	Lectures on courses: Natural hazards; Fires and explosions in mining and industry; Theory of combustion and explosion; Natural hazards and disasters; Natural and fire hazards
Employer name	Faculty of Mining, Geology and Civil Engineering, University of Tuzla
Type of business activity of the employer	Education and Scientific Research
Dates	1996. – 2001.
Position / occupation / title	Associate/Senior Assistant/Master of Technical Sciences in the field of mining
Basic Responsibilities and Duties	Holding exercises on subjects: Ventilation, Natural hazards, Environmental protection
Employer name	Faculty of Mining, Geology and Civil Engineering, University of Tuzla
Type of business activity of the employer	Education and Scientific Research
Dates	1993. – 1996.
Position / occupation / title	Mining Assistant/B.Sc. in Mining
Basic Responsibilities and Duties	Holding exercises on subjects: Ventilation, Natural hazards
Employer name	Faculty of Mining and Geology, University of Tuzla
Type of business activity of the employer	Education and scientific research
Dates	1991. – 1993.
Position / occupation / title	Research Assistant – Associate on the project DC-XVI, TO 5.4. (Department of Ventilation and Natural Hazards)
Basic Responsibilities and Duties	Participation in scientific research work (study of literature, study of the level of research in this issue, development of work plans, collection of data on research objects)
Employer name	Faculty of Mining and Geology, University of Tuzla
Type of business activity of the employer	Education and scientific research

Education and training

Dates	1973. – 1981.
Acquired qualification	Primary education
Field of science and profession, acquired titles and skills	Primary education
Name and type of organization	Elementary School "Vladimir Nazor" Živinice
Dates	1981.- 1985.
Acquired qualification	Secondary education SSS

Field of science and profession, acquired titles and skills	Secondary education
Name and type of organization	Secondary School Center, Živinice
Dates	Faculty of Mining and Geology Tuzla (1985-1989)
Acquired qualification	VII degree of VSS (certificate No. 1224/89, dated 21 December 1989)
Field of science and profession, acquired titles and skills	Mining, Mine ventilation, Natural hazards
Name and type of organization	Bachelor of Science in Mining Engineering
Dates	Faculty of Mining and Geology
Acquired qualification	1995.
Field of science and profession, acquired titles and skills	VIII Degree-Master's Degree (certificate No. 107, dated 21 December 1995)
Name and type of organization	Mining, Mine ventilation, Natural hazards
Dates	Master of Technical Sciences in the field of mining
Acquired qualification	University of Tuzla, Faculty of Mining, Geology and Civil Engineering
Field of science and profession, acquired titles and skills	2001.
Dates	Doctor of Technical Sciences in the field of mining (certificate No. 206, dated December 18, 2001).
Acquired qualification	Mining, Mine ventilation, Natural hazards
Field of science and profession, acquired titles and skills	2024.
Dates	Advancing professional knowledge in the field of climate change and sustainability
Acquired qualification	Ecology; Environmental Engineering; Sustainability Science
Field of science and profession, acquired titles and skills	
Name and type of organization	jOINed For sUsTainability – bUilding climate REsilient communities in WB and EU - 1FUTURE" broj 101082815-1FUTURE-ERASMUS-EDU-2022-CBHE.(2023-2026), Faculty of Technical Sciences, University of Novi Sad
Dates	2000.
Acquired qualification	Enhancing professional knowledge in the field of soil ecology, intensive German language course
Field of science and profession, acquired titles and skills	Soil ecology
Name and type of organization	Tempus Phare Joint European Project No. AC-JEP-14377-1999-2001, University of Kaiserslautern, Germany
Dates	1998.
Acquired qualification	Enhancing expertise in the field of natural hazards in mines
Field of science and profession, acquired titles and skills	Natural hazards (fires, gases in mines)
Name and type of organization	Specialization at the Main Institute of Gornictwa in Katowice, Republic of Poland
Dates	1992.
Acquired qualification	Enhancing expertise in the field of natural hazards in mines
Field of science and profession, acquired titles and skills	Natural hazards (testing of explosive and flammable characteristics of coal dust in laboratory and mine conditions, protective measures against hazardous coal dust)

Name and type of organization	Specialization at the Main Institute of Gornictwa in Katowice, Republic of Poland
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Scientific Papers in the Field of Formal Education

Title of the work	Doctoral dissertation "Reduction of Hazards from the Processes of Endogenic Fires in Coal Mines by Application of New Methods and Insulation Objects"
The institution at which the work was made	University of Tuzla, Faculty of Mining, Geology and Civil Engineering
Year and place.	2001, Tuzla
Title of the work	Master's thesis "Research into influence of the advance rate of longwall excavation on methane release in the S-19/2 excavation block of the "Sretno" pit of the "Breza" Brown Coal Mine in Breza"
The institution at which the work was made	University of Tuzla, Faculty of Mining, Geology and Civil Engineering
Year and place.	1995, Tuzla

Selected publications and presentations

Publication title	Testing of dustiness of the DTO system in the "wet" and "dry" period in the open pit mine
Authors	S.Mičević, H.Tanović, J.Marković
Publisher, year and place	1st Conference on Safety in Surface Mining of Brown Coal, Proceedings, Wrocław, Poland, 23-25 October 1996
Publication title	Release of methane in the function of the longwall face advance rate
Authors	J.Marković , H.Tanović, S.Mičević
Publisher, year and place	27th International Conference (Congress) of Mining Safety and Safety, New Delhi, India Proceedings, 20-22 February 1997
Publication title	The state of atmospheric pollution of an open-pit brown coal mine in relation to the permissible values
Authors	H.Tanović, S.Mičević, J.Marković
Publisher, year and place	2nd World Mining Congress, Proceedings, Katowice, Poland, 13-16 May 1997
Publication title	Extraction of methane from the open surface of the seam and excavated coal as a function of the advancement of the wide-face excavation
Authors	J.Marković
Publisher, year and place	Reconstruction and Development in Bosnia and Herzegovina, Tuzla Seminars: "The Impact of Work Stoppages on the Stability and Safety of Production in Mines with Surface and Underground Exploitation", Tuzla, 30.10.1998, (86-91).
Publication title	Results of dustiness researching by using water plugs at blasting in mines of brown coal in Bosnia and Herzegovina
Authors	H.Tanović, S.Mičević, J.Marković
Publisher, year and place	28th International Conference on Safety in Mines research Institutes, Proceedings of Sinaia, Romania, 7-10 June 1999.
Publication title	Change of mine air temperature in underground lignite mines
Authors	H.Tanović, S.Mičević, J.Marković
Publisher, year and place	9th Plenary Session of the International Mining Bureau – Thermophysics "IBMT 2000", Proceedings, Gliwice, Poland, September 18-22, 2000

Publication title	Interaction investigation of power plant Tuzla electric-filter ashes and slag with salt wells "Trnovac" brine in laboratory conditions
Authors	S.Mičević, J.Marković
Publisher, year and place	III International Symposium "Mining and Environmental Protection", Proceedings, Belgrade, May 21-23, 2001.
Publication title	Prevention of oxidation processes applying new materials for the construction of insulation structures
Authors	J. Marković , A. Adilović, H. Tanović
Publisher, year and place	29th International Conference of Safety in Mines Research Institutes, Katowice 8-11.10.2001. Subsequently published in the journal "Safety in mines research" by A. R. Green, Amsterdam-New York-Sydney, 2001.
Publication title	Testing of permeability of insulation structures as a function of embedded material and building parameters
Authors	J.Marković , A.Bašić, A.Adilović, S.Mičević
Publisher, year and place	Proceedings- RGGF (ISSN 1512-7044), no. XXV, RGGF, Tuzla, 2003 (51-55)
Publication title	Determination of cereal crops dust explosive characteristics
Authors	S.Mičević, J.Sadadinović, J.Marković
Publisher, year and place	XVIII Meeting of Chemists and Chemical Engineers, Proceedings (ISBN 953-6894-08-4; UDK 66(063)(048); CAB Zagreb, February 16-19, 2003
Publication title	Imission of Styrene Monitoring near Building for Production of Polyester Gallantry in Different Technological Conditions in Gradačac
Authors	S.Mičević, Š.Goletić, J.Marković
Publisher, year and place	8th International Conference "Trends in Machining and Tool Technology", Neum, September 15-19, 2004 Proceedings (ISBN 9958-517-28-5)
Publication title	Explosiveness of brown coal dust as a function of moisture and ash content
Authors	J.Marković , K.Bajramović, S.Mičević
Publisher, year and place	Proceedings of the RGGF (ISSN 1512-7044) no. XXVII Tuzla, 2004 (107-111)
Publication title	Position of the ventilation corridor in wide-face excavation in the function of gas and fire hazard
Authors	R.Kurbašić, J.Marković , A. Adilović
Publisher, year and place	Proceedings of the RGGF No. XXIX/I (ISSN 1512-7044) Tuzla, 2005 (115-121)
Publication title	Industrial waste – Possibilities for use in Mining Industry
Authors	J.Marković , S.Mičević, R.Redžepović
Publisher, year and place	Journal of Environmental Protection and Ecology BENA, No 3, Vol.6, 2005.
Publication title	Hazard Sources Identification in Mining Industry
Authors	J.Marković , S. Mičević, A.Adilović
Publisher, year and place	Proceedings of the RGGF (ISSN 1512-7044) no. XXVIII Tuzla 2005 (17-20),
Publication title	Explosiveness of brown coal dust as a function of granulometric composition
Authors	S.Mičević, J.Marković , K. Bajramović
Publisher, year and place	Proceedings of the RGGF (ISSN 1512-7044) No. XXIX/1, Tuzla 2005 (127-131)

Publication title	Occurrence and Development of Coal Spontaneous Fire in «Posušje» Bauxite Mine
Authors	A.Adilović, S.Mičević, J.Marković
Publisher, year and place	31st International Conference of Safety in Mines Research Institutes, 2-5 October 2005, Brisbane, Queensland, Australia
Publication title	Influence of the equivalent longwall orifice on occurrence of spontaneous mine fire
Authors	A.Adilović, J.Marković , K.Gutić
Publisher, year and place	International Mining Symposium, Exploration, Exploitation and Processing of Solid Mineral Raw Materials, Dubrovnik, Proceedings (ISSN 1846-2766) , Croatia 8-10 November 2006 (164-169)
Publication title	Truck transportation of coal waste through settlement «Mrdići»- influence on air pollution
Authors	S.Mičević A.Adilović, J.Marković , A.Bašić
Publisher, year and place	International Mining Symposium, Exploration, Exploitation and Processing of Solid Mineral Raw Materials, Dubrovnik, Proceedings (ISSN 1846-2766) Croatia, 8-10 November 2006 (310-315)
Publication title	Carbon Dust Emissions in Wide-Face Excavation and Explosion Hazard Assessment
Authors	J. Marković , K.Bajramović, S.Mičević
Publisher, year and place	Monograph of the Proceedings of the RGGF (ISSN 1512-7044) No. XXXII, 2006 (112-114)
Publication title	Air pollution caused by coal transportation system at open pit mine "Ćubrić",
Authors	Snežana Mičević, A.Adilović, J.Marković
Publisher, year and place	Scientific and Professional Conference "Ecological Truth", Proceedings (ISBN 978-86-80987-51-4) Soko Banja, 2007. (135-139)
Publication title	Explosive Characteristics of Coal Dust out of Sediment Comparing to Aqueous Dust According to the Example of Brown Coal Mine Zenica
Authors	S. Mičević, J. Marković , M. Delalić , A.Bašić
Publisher, year and place	Proceedings of the RGGF (ISSN 1512-7044), issue XXXIV Tuzla, 2007 (17-22)
Publication title	Deforestation and its influence on natural water springs
Authors	J.Marković,S.Mičević,A.Bašić
Publisher, year and place	Scientific and Professional Conference "Ecological Truth", Proceedings (ISBN 978-86-80987-51-4) Soko Banja, 2008.
Publication title	Gaseous composition of air after blasting in different working environment conditions
Authors	M.Zaimović, A. Adilović, S. Mičević, J. Marković
Publisher, year and place	Proceedings of the RGGF (ISSN 1512-7044) no. XXXIV, Tuzla, 2010/11 (str.59-64)
Publication title	Influence of transport systems at surface mines on air pollution and noise to surrounding settlements
Authors	S.Mičević, J.Marković , A.Adilović, Z.Karadžin
Publisher, year and place	TMT 2009, Hammamet, Tunisia, October 16-21, 2009
Publication title	Contents of Pb, Zn, Ni, Cd and Ti in sedimentary dust in the city of Tuzla

Authors	S.Mičević, J.Marković , A.Bašić, A.Adilović
Publisher, year and place	Proceedings of the 14th International Research/Expert Conference TMT, Mediterranean Cruise, September 2010 (pp. 317-320).
Publication title	Influence Transpirator Substance and Ash in Coal Seam on Readiness of Coal to Self-Ignition
Authors	J. Marković , S. Mičević, S. Bijelić, E.Halilčević
Publisher, year and place	Proceedings of the RGGF (ISSN 1512-7044) no. XXXIV, Tuzla, 2010/11 (pp.95-98).
Publication title	Simulating a fire extinguishing above the 10th floor
Authors	I. Hadžić, A. Adilović, J. Marković
Publisher, year and place	Proceedings of the RGGF (ISSN 1512-7044) no. XXXIV, Tuzla, 2010/11 (pp.99-104).
Publication title	Rapeseed Meal Drying as a Potential Cause of Fires and Explosions in the Oilseed Processing Industry
Authors	S.Mičević, J.Marković , M.Lišić
Publisher, year and place	Proceedings 7. International "Ex" Forum, Fruška Gora, 21-23 September 2011 (str.121-131).
Publication title	Risks of Coal Self-Combustion in Watery Lignite Deposits
Authors	J.Marković , S.Bijelić
Publisher, year and place	Proceedings of the RGGF (ISSN 1512-7044) no. XXXVI, Tuzla, 2012 (pp.7-11).
Publication title	Soil analysis for PCB content in the area of RMU "Banovići"
Authors	S.Mičević, J.Marković , S.Karić
Publisher, year and place	Proceedings of the RGGF (ISSN 1512-7044) no. XXXVI, Tuzla, 2012 (pp.39-43).
Publication title	Analyses of the river sediments on the mouth of the Spreča river into the Modrac accumulation with goal of definition its using value
Authors	S.Mičević, J.Marković , J.Sadadinović, E.Babajić, A.Babajić
Publisher, year and place	Proceedings of the 2nd International Symposium on Environmental and Material Flow Management "EMFM 2012" Zenica, B&H, 07-09 June 2012 (str.89-95).
Publication title	Inerting in coal dust
Authors	S.Mičević, J.Marković , M.Mačković
Publisher, year and place	Bulletin of the Agency for Explosive Atmospheres Endangered Vol. 40, no. 1-2, 2012, ISSN 1845-0172 (h1-h6).
Publication title	Gas Pollutants and Dust from Truck Transport on the Open Pit "Grivice" RMU "Banovići"
Authors	S.Demirović, S.Gutić, J.Marković
Publisher, year and place	23rd International Mining Congress & Exhibition of Turkey, 16-19 April 2013. Antalya (str.187-194)
Publication title	The Importance of Knowing the Minimum Ignition Temperature of Flammable Dust Clouds in the Determination of DGE Dust in a Hybrid Mixture
Authors	J.Marković , M. Mačković
Publisher, year and place	Bulletin of the Agency for Explosive Atmospheres Endangered Vol. 42, no. 1-2. 2014, ISSN 1845-0172 (c1-c6)
Publication title	Methane outburst at water exploration drillhole

Authors	J.Marković, S.Mičević
Publisher, year and place	Bulletin of the Agency for Explosive Atmospheres Endangered Vol. 43, no. 1-2. 2015, ISSN 1845-0172 (d1-d4)
Publication title	Preliminary Assessment of Flood Risks in the Municipality of Lukavac
Authors	J.Marković, E. Nukić, M. Delmanović
Publisher, year and place	Proceedings of International Conference on Innovative Technologies in Safety Engineering), 2015 Rijeka (str 31-35)
Publication title	Aggressiveness of mineral dust
Authors	S.Mičević, J.Marković, E.Babajić, M.Fehratović
Publisher, year and place	Proceedings of International Conference on Innovative Technologies in Safety Engineering), 2015 Rijeka (pp 25-30)
Publication title	Testing of dust explosion characteristics of brown coal at reduced oxygen content
Authors	J.Marković, R.Šišić, S.Demirović
Publisher, year and place	Journal of Society for Development of Teaching and Business Processes in new net Environment in B&H, TTEM, ISSN 1840-1503, Vol.10 (2015), No2
Publication title	Impacts of Slag and Ash Deposition on Surrounding Agricultural Soil
Authors	J.Marković, S.Mičević, Z.Karadžin
Publisher, year and place	19th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2015, Barcelona, Spain, 22-23 July 2015
Publication title	The change of technical characteristics of coal dust as parameters for defining the location of inflammation and the explosion of coal dust
Authors	S.Mičević, J.Marković
Publisher, year and place	Bulletin of the Agency for Areas Endangered by Explosive Atmospheres Vol. 44, no. 1-2. 2016, ISSN 1845-0172 (d1-d5)
Publication title	Fire Risk Management in the Oil Exploitation Process – The Importance of Employee Training
Authors	D.Malkočević, J.Marković
Publisher, year and place	Third International Scientific Conference: Status and Directions of Development of Civil Engineering and Environmental Engineering – EGTZ 2016, Tuzla, 2-4 June 2016
Publication title	Effects of implementing technical measures on admission oilseed in aiming to prevent occurrence of endogenous fire in silo
Authors	M.Lišić, J.Marković
Publisher, year and place	Geosciences Applied to Solve Humanitarian Problems All Over The World May 24-26, 2017, Belgrade, Serbia
Publication title	Electrostatic risk – „RIBC“ plastic containers with flammable liquids https://www.researchgate.net/publication/341203590_OPASNOSTI_OD_STATIC_KOG_ELEKTRICITETA_KOD_UPOTREBE_PLASTICNIH_REZERVOARA_ZA_ZAPALJIVE_TEKUCINE_RIBC
Authors	D.Malkočević, J.Marković
Publisher, year and place	9th International Ex Forum: Institute for Prevention, Occupational Safety, Fire Protection and Development Ltd., Fruška gora, June 1-2, 2017
Publication title	Preliminary flood vulnerability assessment in the framework of spatial planning
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Authors	E.Fehratbegović, J.Marković
Publisher, year and place	1st International Symposium K-Force (Knowledge FOr Resilient soCiEty K-FORCE), Novi Sad 14-15.09.2017.
Publication title	Introduction of contemporary education programs in the field of risk management of disaster events and fire protection engineering in the Western Balkan Countries https://www.researchgate.net/publication/341154582_Introduction_of_contemporary_education_programs_in_the_field_of_risk_management_of_disaster_events_and_fire_protection_engineering_in_the_Western_Balkan_Countries
Authors	R.Šišić, Z.Karadžin, J.Marković
Publisher, year and place	Occupational Safety and Health; 7th International Professional and Scientific Conference, Croatia, Zadar, 12-15-September 2018, (735-740).
Publication title	Determining of circumstances and causes of methane ignition in chamber workings using CFD simulation of gas-ventilation parameters https://www.researchgate.net/publication/344281661_DETERMINATION_OF_CIRCUMSTANCES_AND_CAUSES_OF_METHANE_IGNITION_IN_CHAMBER_WORKINGS_USING_CFD_SIMULATION_OF_GAS-VENTILATION_PARAMETERS
Authors	J.Marković , R.Šišić, Z.Karadžin
Publisher, year and place	Bulletin of the Faculty of Mining, Geology and Civil Engineering Tuzla, 7/2019 (53-59).
Publication title	Managing the fire risk in the oilseeds storage
Authors	M.Laban, J. Marković , N. Ostojić
Publisher, year and place	2st International Symposium K-Force (Knowledge FOr Resilient soCiEty K-FORCE), Epoka University, Faculty of Architecture and Engineering, University Tirana, Faculty of Economy, Department of Finance, Tirana 2019 (265-272).
Publication title	A Real Application of Air Recirculation in Underground Coal Mine https://www.researchgate.net/publication/342802605_A_Real_Application_of_Air_Recirculation_in_Underground_Coal_Mine
Authors	S.Demirović, J.Marković
Publisher, year and place	Journal of Mining Technologies and Mineralogy 2000. Vol 1(1) (1-4)
Publication title	Minimum Ignition Energy of Lignite and Brown Coal Dust Clouds in Coal with and without Interlayers https://drive.google.com/file/d/1Kcv3Dj1vH0mBX0GALn8SJqw5F3YyWO9i/view
Authors	J.Marković , S.Mičević, M.Delalić, E.Nukić
Publisher, year and place	Journal of Faculty of Mining, Geology and Civil Engineering, 9/2021 pp.98-106
Publication title	Assessing Possibility of Using Inert Dust For Explosion Protection in Brown Coal Mines https://www.researchgate.net/publication/363896339_ASSESSING_POSSIBILITY_OF_USING_INERT_DUST_FOR_EXPLOSION_PROTECTION_IN_BROWN_COAL_MINES
Authors	J.Marković , K.Bajramović, E.Nukić, Z.Karadžin
Publisher, year and place	8 th International Scientific Conference: Safety Engineering Conference with International Participation on Fire and Explosion Protection, 2022 At: Budva, Montenegro.

Publication title	Comparative Analysis of Numerical Methods for Public Buildings Fire Risk Assessment https://www.researchgate.net/publication/363896237_COMPARATIVE_ANALYSIS_OF_NUMERICAL_METHODS_FOR_PUBLIC_BUILDINGS_FIRE_RISK_ASSESSMENT
Authors	E. Nukić, J.Marković , Z.Karadžin, S.Mekić
Publisher, year and place	8 th International Scientific Conference: Safety Engineering Conference with International Participation on Fire and Explosion Protection, 2022 At: Budva, Montenegro.
Publication title	Safety Risk Management in BiH Coal Mines - Objective Need or a Burden DOI: 10.51558/2303-5161.2022.10.10.31 https://www.researchgate.net/publication/367022995_SAFETY_RISK_MANAGEMENT_IN_BIH_COAL_MINES_-_OBJECTIVE_NEED_OR_A_BURDEN
Authors	E.Nukić, E.Delić, R.Šišić, J.Marković
Publisher, year and place	Journal of Faculty of Mining, Geology and Civil Engineering, 10/2022 pp.31-40
Publication title	Influence of Various Longwall Face Ventilation Regimes on Spontaneous Mine Fire Occurences and Increased Gas Release in "Raspotočje" Mine of Zenica Brown Coal Mines DOI:10.51558/2303-5161.2022.10.10.41 https://www.researchgate.net/publication/367052057_INFLUENCE_OF_VARIOUS_LONGWALL_FACE_VENTILATION_REGIMES_ON_SPONTANEOUS_MINE_FIRE_OCCURENCES_AND_INCREASED_GAS_RELEASE_IN_RASPOTOCJE_MINE_OF_ZENICA_BROWN_COAL_MINES
Authors	J.Marković , Z.Karadžin, R.Kurbašić, A.Velić
Publisher, year and place	Journal of Faculty of Mining, Geology and Civil Engineering, 10/2022 p.41-48
Publication title	Proposal of a Feasible Energy Mix in Bosnia and Herzegovina https://www.researchgate.net/publication/363896172_PROPOSAL_OF_A_FEASIBLE_ENERGY_MIX_IN_BOSNIA_AND_HERZEGOVINA
Authors	Z.Karadžin, A.Mostarlić, E.Nukić, J.Marković
Publisher, year and place	8 th International Scientific Conference: Safety Engineering Conference with International Participation on Fire and Explosion Protection, 2022 At: Budva, Montenegro.
Publication title	Professional Exposure of Workers to Inhalable Dust in Wood Processing Sector https://www.researchgate.net/publication/364165911_PROFESSIONAL_EXPOSURE_OF_WORKERS_TO_INHALABLE_DUST_IN_WOOD_PROCESSING_SECTOR
Authors	J.Marković , S.Mičević, E.Nukić
Publisher, year and place	8th International Professional and Scientific Conference Occupational Safety and Health, 2022, at: Zadar, Croatia
Publication title	Analysis and Remediation of Endogenous Fire at Longwall Total Coal Thickness Mining of the Main Coal Seam in the Distribution of Mine of Zenica Brown Coal Mines, DOI: 10.51558/2303-5161.2024.12.12.52
Authors	J.Marković , R.Kurbašić, Z.Karadžin, E.Nukić
Publisher, year and place	Journal of Faculty of Mining, Geology and Civil Engineering, 12/2024 https://rggf.ba/glasnik/2024-12/ERAD_7a.pdf

Publication title	Mine Fires, Experiences in Extinguishing Large Underground Mine Fires DOI: 10.11648/j.ogce.20241202.1, LicenseCC BY 4.0 https://www.sciencepublishinggroup.com/article/10.11648/j.ogce.20241202.11
Authors	S.Demirović, J.Marković
Publisher, year and place	International Journal of Oil, Gas and Coal Engineering, 2024, Vol.12, No2, pp 46-56.
Publication title	Comparative Analysis of Sustainability Practices in Western Balkans https://untz.ba/wp-content/uploads/2025/04/The-Albanian-Journal-of-EconomyBusiness_SpecialIssue_1Future.pdf
Authors	E.Nukić, J.Marković and dr
Publisher, year and place	1Future Issue: Climate and Sustainability, THE ALBANIAN JOURNAL OF ECONOMY & BUSINESS, No.1, 2025.
Publication title	GIS-based Flood Vulnerability Assessment in Spreca River Basin https://untz.ba/wp-content/uploads/2025/04/The-Albanian-Journal-of-EconomyBusiness_SpecialIssue_1Future.pdf
Authors	E.Fehratbegović, J.Marković , E.Nukić
Publisher, year and place	1Future Issue: Climate and Sustainability, THE ALBANIAN JOURNAL OF ECONOMY & BUSINESS, No.1, 2025.
Publication title	Information technology and humanitarian response efficiency: A case study of the red cross society of Bosnia and Herzegovina
Authors	Abdurahman Aljic, Edisa Nukic, Jelena Marković
Publisher, year and place	Proceedings 1FUTURE International Symposium 16 – 17 October 2025 Podgorica, Montenegro(140-151) (CIP-Katalogizacija u publikaciji Nacionalne biblioteke Crne Gore, Cetinje, ISBN 978-9911-9616-0-0, COBISS.CG-ID 35906052)
Publication title	Assessment of pollution load from coal mines on the Modrac multipurpose water reservoir: ecological and socio-economic implications
Authors	Maja Kin, Zvezdan Karadžin, Edisa Nukić, Jelena Marković
Publisher, year and place	Proceedings 1FUTURE International Symposium 16 – 17 October 2025 Podgorica, Montenegro(186-201) (CIP-Katalogizacija u publikaciji Nacionalne biblioteke Crne Gore, Cetinje, ISBN 978-9911-9616-0-0, COBISS.CG-ID 35906052)
Publication title	Importance of communication in disaster risk management
Authors	Edisa Nukić, Aida Krić, Jelena Marković , Zvezdan Karadžin
Publisher, year and place	Proceedings 1FUTURE International Symposium 16 – 17 October 2025 Podgorica, Montenegro (485-498) (CIP-Katalogizacija u publikaciji Nacionalne biblioteke Crne Gore, Cetinje, ISBN 978-9911-9616-0-0, COBISS.CG-ID 35906052)
Selected projects and presentations	
Name	Implementation of dust protection measures with special reference to coal dust
Authors	J.Marković
Publisher, year and place	Ex-seminar with international participation and a one-day round table "Safety and security in areas endangered by explosive atmospheres. University of Tuzla, Faculty of Electrical Engineering, 2008.

Name	Within the Summer University "Quality as a Tool for Autonomy, Autonomy as a Condition for Quality", 7-17.7.2003. a paper on the topic "Geotechnics and Environment" was presented.
Authors	J.Marković
Publisher, year and place	Published in the scientific journal Angry in 2003.
Name	Presentation of the paper on the topic: Floating dust at the workplaces of the pit "Main Layer" district "Dobrnja" RL Mramor
Authors	J.Marković
Publisher, year and place	Proceedings of the Kreka Mine in Tuzla, papers of the Round Table on the topic: Floating coal dust, Tuzla, June 9, 2004
Name	Presentation of the paper on the topic «Water as a Cause of Disasters»
Authors	J.Marković
Publisher, year and place	Within the Scientific Conference "Management of Natural, War and Other Disasters" within the 14th International Summer University of Tuzla, 29.06-10.07.2009.
Name	As part of the 6th Ex Forum, organized by the Institute for Prevention, Occupational Safety, Fire Protection and Development Ltd. Novi Sad, a lecture was held on the topic "Revitalization of the Laboratory for Testing Flammable and Explosive Characteristics", Tara, September 22-26, 2009
Authors	Snežana Mičević, Jelena Marković
Publisher, year and place	Lecture published in Proceedings 6 Ex tribine, Institute for Prevention, Occupational Safety, Fire Protection and Development Ltd., Novi Sad 2009 (pp.30-33).

Acknowledgments and awards

Name	Acknowledgment
Institution	Kreka lignite mine
Origin (reason)	Sacrifice and courage were shown in the evacuation of the injured miners and the elimination of the consequences of the accident - on the occasion of the tragic accident in the "Dobrnja" Mine in 1990.

Membership in professional associations

Name of the association / association	BENA Balkan Association for the Protection of the Environment
Brief description of the association / association	The Balkan Environmental Association (B.EN. A) was founded on 19 November 1998 in Thessaloniki, Greece, as a non-profit and non-governmental organization. It is recognised under Greek law and European Union law, under act 22705/30.08.1999, by the Ministry of Foreign Affairs of Greece, under act 57/14.12.2000.
Address of the association / web reference	http://www.gen.teithe.gr/~bena/index.htm
Position in the Association	Member (2005-?)
Comment	

Name of the association / association	Technical Committee BAS/TC 27 (Mining), Association of Mining Engineers of Bosnia and Herzegovina, AteX Association for Explosion Protection and Safety of the Work and Environment.
Position in the Association	Member
Participation in the teaching process	
For the current academic year. <i>(Note: You can enter only classes in which you are the teacher in charge, and you can also enter classes in which you are an associate teacher)</i>	Natural hazards, fires and explosions; Chemical and physical measurements in mining; Physical hazards; Theory of combustion and explosion; Fire and explosion protection; Forensic Engineering; Natural hazards and expert analyses; Disaster Management; Fire Engineering; Geo-environmental Risk Management
In previous academic years <i>(Note: You can enter only classes in which you are the teacher, and you can also enter classes in which you are an associate teacher. Also, you can only enter for one previous year)</i>	I cycle - Natural hazards, fires and explosions; Chemical and physical measurements in mining; Physical hazards; Theory of combustion and explosion; Fire and explosion protection; Forensic Engineering; 2nd cycle - Natural hazards and expert analyses; Disaster Management; Fire Engineering III cycle - Mine fires: prevention, detection and extinguishing; Dust explosions - Prevention and protection
Mentorships	
	Doctoral dissertations 1.Kasim Bajramović: «Inert Solid Content and Explosive Characteristics of Deposited Coal Dust of Older Miocene Deposits" - defended on 03.09.2011. 2. Elvir Fehratbegović: "Management of environmental exogenous natural risks in the function of reducing the vulnerability of space" – defended 09.09.2016. 3. Refik Kurbašić; "Graphoanalytical Method of Analysis of Complexes of Active and Passive Measures in Protection Against Underground Mine Fires" – defended 30.08.2019
	Master's thesis/Master's thesis 1. Kasim Bajramović: «Explosiveness of brown coal dust as a function of inert matter content and particle size». RGGF defended on November 20, 2004. 2. Refik Kurbašić: «The position of the ventilation corridor in the wide-front excavation in the function of gas and fire hazard» defended on 18.12.2004. 3. Selma Bijelić: "Oxidative processes as a function of carbon bed rheology", defended 11.11.2009. 4. Adnan Velić: Explosiveness of brown coal dust as a function of oxygen content in air, Master's thesis defended on 18.07.2014. 5. Maida Delmanović: Risk Identification and Flood Protection Planning in the Municipality of Lukavac, master's thesis defended on 02.10.2014. 6. Mario Antić: Integration of Standard Operating Procedures for Intervention in Extraordinary Events at Split Airport, master's thesis defended on 05.12.2014. 7. Damir Malkočević: Selection and analysis of the optimal method of fire protection in the process of oil exploitation, paper defended 16.10.2015. 8. Emir Hamidović: "Implementation of the OHSAS 18001 standard in the company "NATRON-HAYAT" d.o.o. MAGLAJ", paper defended on 19.09.2018. 9. Almir Halilović: Principles of designing fire protection systems in industrial plants, paper defended in october 2020.

Scientific Research Projects and Studies

1. Study of the impact of natural CO₂ exploitation on the environment of the locality Klokoti – Kiseljak, 1999 -2001. A.Bašić, S.Mičević, **J.Marković**
 2. Scientific study: «Research of dustiness and harmful gases in the application of water plugs in blasting in brown coal pits of the Central Bosnia basin», University of Tuzla, RGGF 2002. H.Tanović, S.Mičević, **J.Marković**
 3. Necessary research project: Inert solids content and explosive characteristics of deposited coal dust in the Omazići pit RMU Banovići, Government of TK and RMU Banovići, 2008. **J.Marković**, S.Mičević
 3. Internal research project: Assessment of the alteration of protective columns in the Omazići pit RMU Banovići based on the content of humic acids, Ministry of Education, Science, Culture and Sports of TK and RMU Banovići, 2010. S.Mičević, **J.Marković**
 4. Study on the geological-morphological characteristics of coal deposits at the "Tržac-Crnaja" site with the program of remediation of coal spontaneous ignition and landslides A.Bašić, **J.Marković**, S.Mičević, RGGF Tuzla, 2009
 5. Impact of Directive EC 1999/92 (Atex-137), which refers to minimum requirements for achieving improved protection of the health of workers exposed to a potential risk of explosive atmospheres (fifteenth individual directive within the meaning of Article 16, paragraph 1 of Directive 89/391/EC) on Bosnia and Herzegovina (R.Jozić, S.Mičević, **J.Marković**) RIA, 2007
 6. DC XVI, TO-5-5.4 "Investigation of Hazards and Preventive Measures Against Aggressive Mineral Dust", SIZ Sciences of Bosnia and Herzegovina, 1992. H.Tanović, S.Mičević, **J.Marković**
 7. Vulnerability Study of Tuzla Canton, Bosna-S Oil Services Company and RGGF Tuzla. A.Bašić, **J.Marković**, S.Mičević, RGGF Tuzla, 2008
 8. Scientific research study: «Possibility of a controlled process of consolidation of the massif in the subsidence zone at the Tuzla salt deposit», RGGF Tuzla, 1999/2001 (Final report written and submitted in 2002) A.Bašić, S.Mičević, **J.Marković**, RGGF Tuzla.
 9. Preliminary Assessment of the Impact of the Orašje – Šićki Brod Motorway on the Surroundings, A.Bašić, **J.Marković**, S.Mičević, RGGF Tuzla 2009.
- Environmental Impact Assessment Study of the Orašje – Šićki Brod Motorway (LOT-1; LOT-2; LOT-3; LOT-4; LOT-5) Faculty of Mining, Geology and Civil Engineering, 2011/12, Tuzla
- S. Mičević, **J.Marković**, A.Bašić

International projects:

1. Scientific project: WUS-CEP program: Educational and Intervention Center for Aerology, Natural Hazards, Safety and Ecology in Mining, 1998, team member on behalf of the University of Tuzla
2. Scientific project: Tempus Phare Joint European Project Nr. AC-JEP-14377-1999: t: Curriculum and education in the field of soil ecology, University of Tuzla - RGGF Tuzla, University of Kaiserslautern (D), University of Ghent (B), University of Banja Luka. ETP – JEP, 1999/2001 (Final report written and submitted in 2002), team member on behalf of the University of Tuzla
3. Scientific project: DAAD-Project - Environmental Protection - Old Landfills: Kaiserslautern University, Germany, University of Banja Luka, University of Mostar, University of Tuzla, 2000 - 2001, team member on behalf of the University of Tuzla
4. Scientific project: DAAD – Project – «Environmental Protection – Old Landfills», University of Tuzla, University of Kaiserslautern Germany, University of Banja Luka, University of Mostar, 2003 – 2004, member of the team on behalf of the University of Tuzla
5. Erasmus+ "Knowledge For Resilient soCiEty – K-FORCE" (2016-2020) – team member on behalf of the University of Tuzla – team member on behalf of the University of Tuzla

	6. Erasmus+"jOINED For sUsTainability - bUilding climate REsiliEnt communities in WB and EU - 1FUTURE" in the period 2023-2026 A member of the team in front of the University of Tuzla
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Published books

Book title	Fires and explosions; Book I "The Theory of Combustion and Explosion"
Authors	Marković J., Šišić R., Bašić A.
Publisher, Year and Place of Publication of the Book	Ars grafika, Tuzla, 2010. (CIP – Cataloguing in the publication of the National and University Library of BiH, Sarajevo, UDK 614.841.41(075.8), Bibliography: pp. 155-159, ISBN 987-9958-894-04-6, COBISS. BH-ID 17954566).
Book title	Fires and explosions; Book II "Fires and Explosions in Mining and Industry"
Authors	Šišić R., Marković J., Bašić A.
Publisher, Year and Place of Publication of the Book	IN SCAN d.o.o., Tuzla, 2012. (CIP – Cataloguing in the publication of the National and University Library of BiH, Sarajevo, UDK 622.81/.82, Bibliography: p. 167.171, ISBN 987-9958-894-09-1, COBISS. BH-ID19369990).
Book title	Textbook "Fires in the Coal Mines"
Authors	Marković J., Mičević S.
Publisher, Year and Place of Publication of the Book	OFF-SET Tuzla, 2005. (CIP – Cataloguing in the publication National and University Library of BiH, Sarajevo, UDK 622.822/.824(075.8),ISBN 9958-609.40.1, COBISS. BH-ID14545670).
Book title	Soil ecology
Authors	Adilović A., Marković J., Delić E.
Publisher, Year and Place of Publication of the Book	The book was published within the Tempus project no.14377-1999 (COBISS. BH-ID 12958726)
Book title	Glossary of Terms in Disaster Risk Management and Fire Safety. http://www.kforce.gradjevinans.net/images/Fajlovi/glossary/KForce_Glossary_online_edition.pdf
Authors	M. Laban et al. (Z. Karadžin, J. Marković, E. Nukić)
Publisher, Year and Place of Publication of the Book	ISBN 978-86-6022-197-3; COBISS.SR-ID 330486791, Novi Sad 2019.
Book title	Fire safety in buildings: a Western Balkan approach and practice. http://www.kforce.gradjevinans.net/images/Fajlovi/Publications/EBook_Kforce_Fire_safety_in_buildings_EN.pdf
Authors	M. Laban et al. (J. Marković, E. Nukić)
Publisher, Year and Place of Publication of the Book	ISBN 978-86-6022-279-6; COBISS. SR-ID 19894025; Novi Sad 2020.
Book title	Bezbednost zgrada od požara, Pristup i praksa zapadnog Balkana; http://www.kforce.gradjevinans.net/images/Fajlovi/Publications/EBook_Kforce_Fire_safety_in_buildings_SRB.pdf
Authors	M. Laban et al. (J. Marković, E. Nukić)
Publisher, Year and Place of Publication of the Book	ISBN 978-86-6022-292-5; COBISS.SR-ID 21298697; Novi Sad 2020.

Book title Požarna bezbednost zgrada;
<https://plus.cobiss.net/cobiss/sr/sr/bib/ubsm/81079817>

Authors M. Laban et al. (J. Marković, E. Nukić)

Publisher, Year and Place of Publication of the Book ISBN 978-86-6022-531-5; COBISS.SR-ID 81079817; Faculty of Technical Sciences, Novi Sad 2022.

Personal Skills and Competencies

Mother tongue **Bosnian**

Other languages

Understanding		Speech		Writing
Hearing	Reading	Speech interaction	Speech	

English language

German Language

Good	Good	Good	Good	Good
Good	Good	Good	Good	Good

Scientific, professional and social competencies

Competencies for conducting scientific research and teaching in higher education

Experience, professional exam, publications

Competencies for participation in scientific research projects

A large number of applied and development studies and projects, expertise in the field of mining, fire protection and environmental protection, cooperation with economic and scientific research institutions

Scientific research interest (occupation) and current training

Doctor of Mining
Expert for explosive, aggressive and flammable coal dust
Expert for toxic, flammable and explosive gasses
Expert for the mine fires
Expert for environment protection

Planned training

Organizational Skills and Competencies
Technical skills and competences

Head of ITA Geoenvironmental Engineering

Computer skills and competencies
Artistic skills and competencies

Knowledge of laboratory equipment (for testing microclimatic parameters; flammable, explosive and aggressive properties of dust, preparation of coal for self-ignition, determination of gas composition), research methods, and competence for databases, their use and inference.
Mikrosoft Word, Excel, Power Point

I, the undersigned, hereby certify that, to the best of my knowledge and on my behalf, the above information is correct in the description of me, my qualifications and my experience in my previous work.

Tuzla, 23.01.2026.

