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PERSONAL INFORMATION

Surname and first name	Raič, Mirna
Address	Work: University of Mostar Faculty of Civil Engineering, Architecture and Geodesy Matice hrvatske bb, 88000 Mostar, Bosnia and Herzegovina
Telephone	+387 36355020
Mobile phone	+387 63347472
Fax	+387 36355001
E-mail address	mirna.raic@fgag.sum.ba
Web address	https://fgag.sum.ba/en/people/teachers/teachers-and-associates-mr-en
Nationality	Croat
Citizenship(s)	Bosnia and Herzegovina; Republic of Croatia
Date of birth	June 5 th 1978
Gender	female

**PROFESSIONAL
EXPERIENCE**

Dates (from - to)	2017 - today
Occupation or position held	Assistant Professor
Main activities and responsibilities	Assistant Professor in scientific area of technical sciences, scientific field of Civil Engineering, branch Hydrotechnics of the University undergraduate and graduate study of Civil Engineering
Name and address of employer	University of Mostar; Faculty of Civil Engineering, Architecture and Geodesy; Matice hrvatske bb; 88000 Mostar; Bosnia and Herzegovina
Type of business or sector	Hydromechanics, Hydraulic Structures, Hydraulics, Groundwater Flow Modeling, Hydropower Engineering, Groundwater Flow and Solute Transport Modeling, Modeling in Hydrotechnics
Dates (from - to)	2020 - 2024
Occupation or position held	Editor-In-Chief of the Journal: e-ZBORNİK, Electronic Collection of Papers of the Faculty of Civil Engineering
Main activities and responsibilities	Editor-In-Chief of the Journal that publish scientific and professional papers dealing with different topics in the field of civil engineering and other technical sciences.
Name and address of employer	University of Mostar; Faculty of Civil Engineering, Architecture and Geodesy; Matice hrvatske bb; 88000 Mostar; Bosnia and Herzegovina
Type of business or sector	https://e-zbornik.gf.sum.ba/en/
Dates (from - to)	2020 - 2022
Occupation or position held	Secretary of the Postgraduate Doctoral University Study of Civil Engineering
Main activities and	Organization and analysis of activities realization related on



**EUROPEAN
CURRICULUM VITAE
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responsibilities	Postgraduate Study of Civil Engineering.
Name and address of employer	University of Mostar; Faculty of Civil Engineering, Architecture and Geodesy; Matice hrvatske bb; 88000 Mostar; Bosnia and Herzegovina
Type of business or sector	Postgraduate Doctoral University Study of Civil Engineering
Dates (from - to)	2020 - 2021
Occupation or position held	Assistant of the Vice-Dean for Science at the Faculty of Civil Engineering, University of Mostar
Main activities and responsibilities	Analysis of scientific activities of the employees at the Faculty of Civil Engineering, University of Mostar.
Name and address of employer	Faculty of Civil Engineering, University of Mostar, Matice hrvatske bb; 88000 Mostar; Bosnia and Herzegovina
Type of business or sector	Assistant of the Vice-Dean for Science
Dates (from - to)	2001 - 2017
Occupation or position held	Research and teaching assistant
Main activities and responsibilities	Research associate in projects Research and teaching assistant in the group of hydraulic engineering subjects
Name and address of employer	Faculty of Civil Engineering University of Mostar; Matice hrvatske bb; 88000 Mostar; Bosnia and Herzegovina
Type of business or sector	Hydromechanics, Hydraulics, Protection of water and environment, Hydroenergy, Groundwater modeling, Application of stochastic methods
Dates (from - to)	2013 - 2020
Occupation or position held	HORIZON 2020 National Contact Point (NCP) for EURATOM
Main activities and responsibilities	National contact point for the program HORIZON 2020, the area of EURATOM for Bosnia and Herzegovina
Name and address of employer	Ministry of Civil Affairs of Bosnia and Herzegovina; Trg BiH 1; 71000 Sarajevo; Bosnia and Herzegovina
Type of business or sector	HORIZON 2020 - EURATOM
Dates (from - to)	2012 - 2017
Occupation or position held	Coordinator for International Cooperation
Main activities and responsibilities	Coordinator for International Cooperation at the Faculty of Civil Engineering, University of Mostar
Name and address of employer	Faculty of Civil Engineering University of Mostar; Matice hrvatske bb; 88000 Mostar; Bosnia and Herzegovina
Type of business or sector	International exchange of students, teaching and staff related on mobility programmes of the University of Mostar.
Dates (from - to)	2011 – 2013
Occupation or position held	Focal point for the University of Mostar



**EUROPEAN
CURRICULUM VITAE
FORMAT**
(in English)



Main activities and responsibilities	Focal point of the University of Mostar for the programs FP7, COST and EUREKA within the project "Capacity building of the Ministry of Civil Affairs for participation in the European Union programs related to scientific research"
Name and address of employer	Ministry of Civil Affairs of Bosnia and Herzegovina; Trg BiH 1; 71000 Sarajevo; Bosnia and Herzegovina
Type of business or sector	FP7, COST and EUREKA programs

EDUCATION AND TRAINING

Title	Ph. D. in scientific area of technical sciences, scientific field of Civil Engineering, branch Hydrotechnics
Date	2017
Institution	Faculty of Civil Engineering University of Mostar
Place	Mostar, Bosnia and Herzegovina
Title	Master of Science in Civil Engineering, in scientific area of technical sciences, scientific field of Civil Engineering, branch Hydrotechnics (M.Sc.)
Date	2012
Institution	Faculty of Civil Engineering, Architecture, and Geodesy, University of Split
Place	Split, Republic of Croatia
Title	Bachelor of Science in Civil Engineering (B.S.Civ.Eng.)
Date	2001
Institution	Faculty of Civil Engineering University of Mostar
Place	Mostar, Bosnia and Herzegovina

**PERSONAL SKILLS AND
COMPETENCES**

Mother tongue	Croatian
Other language(s)	
Language	English
Listening	C1
Reading	C1
Spoken interaction	B2
Spoken production	B2
Writing	C1

**SOCIAL SKILLS AND
COMPETENCES**
**ORGANIZATIONAL SKILLS
AND COMPETENCES**

Team spirit acquired through a number of projects conducted within larger consortia.
Sense for organization manifested through participation and work in various types of projects and through organization of workshops and conferences. Organization of field research for the needs of professional and research projects.



**EUROPEAN
CURRICULUM VITAE
FORMAT**
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TECHNICAL SKILLS AND COMPETENCES	Active participation in the DHI educational training titled: "Groundwater Modelling with FEFLOW". Operating hydrotechnical equipment for field and laboratory research.
COMPUTER SKILLS AND COMPETENCES	Microsoft Office™, AutoCAD, CorelDRAW, Corel PHOTO-PAINT, DHI WASY FEFLOW, HEC-RAS
TRAINING	<ul style="list-style-type: none">- DHI training: „Groundwater modelling with FEFLOW, 2008- Horizon 2020 training: „Constructed Wetlands for Wastewater Treatment“, organized by: UNESCO-IHE Institute for Water Education within the framework of the ENPI Horizon 2020 Capacity Building/Mediterranean Environment Programme, 2011- 2nd International scientific-professional meeting „Science, scientific communication and journals“, organized by: University of Mostar and PRESSUM, 2021- Lifelong learning programme in the field of pedagogical education and strengthening the competencies of teaching staff at the University of Mostar – TRAIN+ programme, 2022- IWA webinar: „Groundwater: protecting tomorrow's resources“, organized by: The International Water Association, 2022- „Webinar on Groundwater: Making the Invisible Visible“, organized by: International Association for Hydro-Environment Engineering and Research, 2022- Webinar: „Two-phase air-water flow analysis by means of advanced optical measurement techniques“, organized by University North in cooperation with University of Cassino and Southern Lazio, Italy, 2022- IAHR Groundwater Webinar: „Roles of Uncertainty in the Assessment of Subsurface Flow and Transport“, organized by: International Association for Hydro-Environment Engineering and Research, 2023- Webinar: „Hydro-Geo Assessment for the Sustainability“, organized by: Binaloud Institution of Higher Education in cooperation with University North, Croatia, 2023
ARTISTIC SKILLS AND COMPETENCES	Participation in editorial boards (Collected Papers of the Faculty of Civil Engineering University of Mostar - yearbook, proceedings of symposia and conferences of the Faculty)
ADDITIONAL INFORMATION	Winner of the Danubius Young Scientist Award 2021. The Danubius Young Scientist Award is granted by the Austrian Federal Ministry for Education, Science and Research (BMBFW) and the Institute for the Danube Region and Central Europe (IDM) with the intention to honor scientists with extraordinary achievements in their scientific activity and output in relation to the Danube Region. https://www.drc-danube.org/2021/11/29/danubius-awards-2021/
ATTACHMENTS	<ol style="list-style-type: none">1. List of major expert and scientific research projects2. List of important works and presentations; Participation in editorial boards

1. List of major expert and scientific research projects

- Ramsar MedWet Inventory database – the project: Lower Neretva River transboundary management plan, 2001 - associate



**EUROPEAN
CURRICULUM VITAE
FORMAT**
(in English)



- DAAD-project: Akademischer neuaufbau soe (DAAD-project: Academic reconstruction of Southeastern Europe), 2001 - associate
- Production of the cadastre of illegal dumps and landfills in the counties of Herzegovina-Neretva and West Herzegovina, 2001 - associate
- Systematic development of the coast and marine resources of Bosnia and Herzegovina – study, 2002 - associate
- Conceptual design of the water supply network for the refugee settlement of Hodovo, 2002 – project team member
- Conceptual design of water supply for the therapeutic community Rotimlja, 2002 – project team member
- Renewal of the technical measurement system and exploration of the situation underground the left hinterland and dam of HEPP Mostar, 2003 - associate in the research
- Renewal of the technical measurement system and exploration of the situation underground the left hinterland and dam of HEPP Mostar - phase II, 2005 - associate in the research
- Report on the investigation of permeability of the diaphragm and filled part of the dam, and condition and progress of erosional and suffusive processes, 2006/2007 - associate in the research
- Analysis of the condition of the Neretva River beds and banks on the section Počitelj - Republic of Croatia, 2008 - associate in the research
- Analysis of groundwater levels in piezometers in the left hinterland of HEPP Mostar for the period from May 2006 to May 2008, 2008 - associate in the research
- Bosnia and Herzegovina: Strategic Environmental Assessment of Trebižat and Cetina River Basins – SEA Preliminary Report, 2008. – member of the work team
- Hydraulic study of daily fluctuations of water in the T-M-T riverbed downstream of HEPP Peć Mlini, 2008 - associate in the research
- The Kravica Waterfall: Water management and environmental protection in the protected area of the Kravica Waterfall, 2008 - associate in the research
- HEPP Mostar 2 – Conceptual design, 2009 - associate in the project
- HEPP Mostar 2 – Preliminary environmental impact study, 2009 - associate
- FP7 project Impact Monitoring of Mineral Resources Exploitation (acr.: ImpactMin), 2010-2013, University of Mostar – member of the Consortium
- Analysis of exploitation of underground water resources for the purpose of supplying rural settlements with drinking water, 2012 – project manager
- Development of the study on influence of the lower balancing reservoir on the Mala Svitava cassette, 2013 - associate in the research
- Development of the study on condition of the Krupa River banks and bed with analysis of geomechanical and hydraulic stability, 2013 - associate in the research
- Selection and application of adequate methodology for determining environmentally acceptable flow in the Trebižat River downstream of HEPP Peć Mlini, 2014 - associate in the research
- Environmental impact study for MHPP on the Rama River (five MHPPs in sequence) - cumulative impact, 2014 - associate in development of the study
- General analysis of available maps and interpretation of natural conditions for the purpose of assessing the possibilities for hydropower use of water in the Trebižat River basin downstream of HEPP Peć Mlini and its incorporation into IWRM (Integrated Water Resources Management), 2014 - associate in the research
- Hydraulic study of groundwater flows in the left hinterland of HEPP Mostar, 2014 - associate in the research
- Establishing the simulation model of flow along the main course in natural flow conditions in the area of Imotski - Bekija field and on the entire T-M-T section, 2015 - associate in the research
- Development of the study on research of spring capacity at the coastal area, 2017 - associate in the research
- Technical documentation for the PHEPP Vrilo, 2019 – associate in the project
- Elaborate of investigation borehole for watersupply system Goranci, 2020 – associate in the research

2. List of important papers, presentations and editorials



EUROPEAN
CURRICULUM VITAE
FORMAT
(in English)



- Raguž, M., **Blidinje Nature Park**, Hrvatska vodoprivreda, year IX, issue 98, Zagreb, November 2000
- Goluža, M., Raguž, M., **Hydrology of the karst river of Bregava - Will the Bregava River become a dry karst valley?**, Collected Papers of the Faculty of Civil Engineering University of Mostar, issue 1, Mostar, 2001
- Editing and technical processing of **Collected Papers 1 of the Faculty of Civil Engineering University of Mostar**, editor-in-chief: M.Sc. Ivo Čolak, 2001
- Radović, J., Vego, J., Raguž, M., Štefan, A., **The Lower Neretva transboundary wetland area**, Collected Papers of the Faculty of Civil Engineering University of Mostar, issue 2, Mostar 2002
- Milašinović, Z., Raguž, M., **Use of flexible dams in protected areas - A reference to Hutovo Blato Nature Park**, Scientific and expert symposium Construction and Environment, Brijuni 2002
- Lecture within the Scientific Hour titled: **Hydrology of the karst river of Bregava - Will the Bregava River become a dry karst valley?**, authors: Goluža, M. and Raguž, M.
- **Collected Papers 2 of the Faculty of Civil Engineering University of Mostar** – deputy editor-in-chief, editor-in-chief: Ivo Čolak, Ph.D., 2002
- Raguž, M., **Life of the Dying River**, Vrutak – Journal of the Society of Friends of Antiquities Hutovo, year 5, issue 8-9, Hutovo, April 2003
- Presentation within the workshop *Preparation of the Lower Neretva River transboundary management plan* titled: **MedWet Database 2000, aid in inventorying wetlands - experiences on the example of the Lower Neretva**
- Proceedings of the scientific and expert symposium with international participation **Water in Karst of the Cetina, Neretva and Trebišnjica Basins** - member of the editorial board, Neum, 2003
- Milašinović, Z., Raič, M., **Filtration deformations of soil in profile of the HEPP Mostar dam, 2003**, Proceedings of the scientific and expert symposium with international participation Water in Karst of the Cetina, Neretva and Trebišnjica Basins, Neum 25-27 September 2003 - participation in the symposium
- Raič, M., **Hydrodynamic works of monitoring, measuring and evaluation**, presentation within the round table: Renewal of the technical measurement system and investigations of the situation underground the left hinterland of HEPP Mostar dam, Faculty of Civil Engineering University of Mostar, March, 2006
- Milašinović, Z., Raič, M., Lukić, I., **Results of Investigations in the area of the left hinterland of HEPP Mostar**, GNP 2008, Proceedings of the Second international scientific and expert conference Construction, Science and Practice, Volume 2, Žabljak 03-07 March 2008
- Milašinović Z., Kalajdžisalihović, H., Raič, M., **Application of unsteady numerical model MIKE 11 in the determination of resistance coefficient in the bed of the Neretva river downstream from HEPP Mostar**, International scientific symposium Modeling of Structures, Faculty of Civil Engineering University of Mostar, 13-15 November 2008
- Lukić, I., Raič, M., Prskalo, G., Zovko, D., **Strategy of waste disposal in Herzegovina**, Scientific and expert conference: Modern Technologies for Sustainable Development of Cities, Banja Luka, November 2008
- Raič, M. and students, **Renewable energy sources in protected areas - a reference to the Kravica Waterfall**, Regional conference on environmental protection in energetics, mining and industry, Divčibare, 2010
- Participation in the ImpactMin FP7 project workshop with the presentation titled: **ImpactMin FP7 – Site Presentation: Mostar Valley, Bosnia and Herzegovina**, Split, Mostar, 2010
- Smailbegović, A., Šerifović, E., Raič, M., **Applications of remote sensing in assessing the environmental impact of mining and metallurgical works**, 4th counseling of geologists of Bosnia and Herzegovina with international participation, Sarajevo, 28 – 29 October 2011
- Raič, M., **Determining the area and intensity of seepage in the left hinterland of the Mostar hydroelectric power plant dam**, Master's thesis, Faculty of Civil Engineering, Architecture and Geodesy, University of Split, Split, 2012
- Raič, M., **Determining the area and intensity of seepage in the left hinterland of the Mostar hydroelectric power plant dam**, e-ZBORNİK, Electronic Collection of Papers of the Faculty of Civil Engineering University of Mostar, issue 4, Mostar, 2012



**EUROPEAN
CURRICULUM VITAE
FORMAT**
(in English)



- Milašinović, Z., Raič, M., Boras, K., **Hydraulic numerical analysis of water flow through embankment and the surrounding soil**, e-ZBORNIK, Electronic Collection of Papers of the Faculty of Civil Engineering University of Mostar, issue 8, Mostar, 2014
- Milašinović, Z., Raič, M., **Analysis of available data for a part of the Trebizat river basin**, e-ZBORNIK, Electronic Collection of Papers of the Faculty of Civil Engineering University of Mostar, issue 11, Mostar, 2016
- Raič, M., **Research of groundwater flow in media with variable conductivity**, Ph. D. Thesis, Faculty of Civil Engineering University of Mostar, Mostar, 2017
- Raič, M., Palac, A., **Analysis of groundwater flows in the area of the designed PSPP Vrilo lower balancing reservoir**, e-ZBORNIK, Electronic Collection of Papers of the Faculty of Civil Engineering University of Mostar, issue 16, Mostar, 2018
- Raič, M., Akmadžić, V., **Application of the Cross iterative method on simple systems**, e-ZBORNIK, Electronic Collection of Papers of the Faculty of Civil Engineering University of Mostar, issue 18, Mostar, 2019
- Dakić, E., Raič, M., **Hydraulic analysis of part of the Šuica river watercourse**, e-ZBORNIK, Electronic Collection of Papers of the Faculty of Civil Engineering University of Mostar, issue 18, Mostar, 2019
- Merdžo, P., Raič, M., **Hydraulic numerical analysis of groundwater in the left hinterland of the Mostar hydroelectric power plant dam**, e-ZBORNIK, Electronic Collection of Papers of the Faculty of Civil Engineering University of Mostar, issue 20, Mostar, 2020 (<https://doi.org/10.47960/2232-9080.2020.20.10.71>)
- Šrajbek, M., Đurin, B., Raič, M., **Determination of the inflow area of the wellfield Vinokovščak by using numerical methods**, 9th International Conference WATER FOR ALL 2022, 19-20 May, 2022, Osijek, Croatia
- Đurin, B., Raič, M., Sušilović, P., **Application of the RAPS Method of Time Series Analysis to the Assessment of Grout Curtain Performance in Karst—A Case Study of the Hydro Energy Power Plant (HEPP) Mostar Dam in Bosnia and Herzegovina**. Hydrology 2022, 9, 192. <https://doi.org/10.3390/hydrology9110192>
- Drožđan, M., Pintarić, I., Đurin, B., Sušilović, P., Raič, M.: **(Un)certainty of linear trends in hydrology**, 1st European GREEN Conference, 23-26 May 2023, Vodice, Croatia
- Singh, S. K., Kanga, S., Gulati, B., Raič, M., Sajan, B., Đurin, B., Singh, S.: **Spatial and Temporal Analysis of Hydrological Modelling in the Beas Basin Using SWAT+ Model**, Water 2023, 15, 3338. <https://doi.org/10.3390/w15193338>
- Đurin, B., Raič, M., Sušilović, P., Drožđan, M., Pintarić, I.: **Analiza protoka na rijeci Bednji IPTA metodom**, Hrvatske vode, Vol. 31, No. 126, 2023; <https://hrcak.srce.hr/clanak/459490>
- Đurin, B., Raič, M., Sušilović, P., Banejad, H.: **Analysis of homogeneity and isotropy of the flow in the watercourses by applying the RAPS and IPTA methods**, Advances in Civil and Architectural Engineering, (ISSN: 2975-3848), 2024 – accepted for publishing