

MAŠINSKI FAKULTET UNIVERZITETA CRNE GORE KOMISIJA ZA DOKTORSKE STUDIJE

PRIJAVA ZA MENTORA

Student __**Brđanin Radislav**_____ (prezime i ime)

ULTET Btol 263 Podgorica 14.02 2019

Oblast polaznih istraživanja **_Primijenjena mehanika fluida**__

Za mentora predlažem ___Prof. dr Uroš Karadžić_

STUDENT



KOMPETENCIJE MENTORA				
(pet objavljenih radova u relevantnim časopisima – SCI/SCIE lista)				
	1	Vujadinović R., Tombarević E.,	<i>Thermal Science</i> , 21(5), 1893-	
		Karadžić U. (2017). Valorization of	1903.	
		potentials of wind energy in	doi:10.2298/TSC1161201016V	
		Montenegro.	ISSN 0354-9836, E- ISSN 2334-	
		hitemene B. et	7163	
	2	Karadžić U., Bulatović V., Bergant	Strojniški Vestnik-Journal of	
	_	A (2014). Valve induced water	Mechanical Engineering, 60(11),	
		hammer and column separation in	742-754. ISSN 0039-2480.	
		nipeline apparatus.		
	3	Karadžić U., Kovijanić V.,	Water Resources, 41(6), 774-	
Prui montor		Vujadinović R. (2014). Possibility for	781. ISSN 0097-8078.	
FIVIMEntor		hydro energetic utilization of		
		relatively researched water streams.		
	4	Karadžić U Bergant A.	Strojniški Vestnik-Journal of	
		Vukoslavčević P. (2009). A novel	Mechanical Engineering, 55(6),	
		Pelton turbine model for water	369-380. ISSN 0039-2480.	
		hammer analysis		
	5	Bergant A Karadžić U	Stroiniški Vestnik-Journal of	
	5	Vitkovsky I Vušanović I and	Mechanical Engineering, 51(11),	
		Simpson A P (2005) A Discrete	692-710, ISSN 0039-2480.	
		Simpson, A.K. (2005). A Discrete		
	1	Gas-Cavity Model that Considers the		



MAŠINSKI FAKULTET UNIVERZITETA CRNE GORE KOMISIJA ZA DOKTORSKE STUDIJE

		Frictional Effects of Unsteady Pipe Flow.	
	1		
Drugi mentor	2		
	3		
	4		
	5		

Napomena: Za multidisciplinarne oblasti disertacije postoji potreba za drugim mentorom.

Prilog:

- Odluka o izboru u akademsko zvanje za potencijalnog mentora

УНИВЕРЗИТЕТ ЦРНЕ ГОРЕ

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UNIVERSITY OF MONTENEGRO

Ul. Cetinjska br. 2 P.O. BOX 99 81 000 PODGORICA M O N T E N E G R O Phone: (+382) 20 414-255 Fax: (+382) 20 414-230 E-mail: rektor@ac.me

08-130 Број: 29.01.2015 Датум,

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	•

Ref:

Date,

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju (Službeni list Crne Gore br. 44/14) i člana 18 stav 1 tačka 3 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 29. januara 2015. godine, donio je

O D L U K U O IZBORU U ZVANJE

Dr UROŠ KARADŽIĆ bira se u akademsko zvanje vanredni profesor Univerziteta Crne Gore za predmete: Pumpe, ventilatori i turbokompresori, Turbine, Projektovanje energetskih postrojenja i Hidroelektrane, na Mašinskom fakultetu, na period od 5 godina.

REKTOR Radmila Vojvodić

CURRICULUM VITAE

1.	Family Name	Karadžić
	First Name	Uroš
	Maiden Name (if any)	

2.	Date of Birth:	08.05.1974.
3.	Marital Status:	Married, two children
4.	Sex:	Male

5.	Address:	Studentska street, Lamela 2, V-40, 81000 Podgorica, Montenegro
	Telephone:	+382 69 014 053, +382 67 510 232, +382 20 268 682
	Fax:	+382 20 206 131
	E-mail:	uros.karadzic@ac.me

6.	Education (College and	d/or Univer	sity or equivaler	nt)
	Name	Years	Degree	Major Subject of Study
		Attended	Obtained	
	University of Montenegro, Faculty of Mechanical Engineering	2005 – 2008	PhD ME	Research on Fluid Transients Phenomena on Perućica HPP, Montenegro
	University of Montenegro, Faculty of Mechanical Engineering	2000 - 2004	MSc ME	Fluid Transients, Water Hammer, Unsteady Friction
	University of Montenegro, Faculty of Mechanical Engineering	1992 - 1999	BSc ME	Air Conditioning

7.	Additional Education Information		
	Scholarships or Academic Distinctions:	1. Scholarship from The Ministry of the Republic of Slovenia for Education, Science and Sport for two months (January 2005 – February 2005)	
	Publications:	1. Books	
		1. Vukoslavčević P., Karadžić U . (2010). Fundamentals of Fluid Mechanics. <i>Textbook,</i> <i>University of Montenegro, Faculty of Mechanical</i> <i>Engineering,</i> Podgorica, Montenegro. (in Serbian)	
		2. Disertations	
		1. Karadžić U . (2008). Modelling of complex boundary conditions for transients in hydraulic systems. <i>PhD thesis, Faculty of Mechanical</i> <i>Engineering, University of Montenegro</i> , Podgorica, Montenegro. (in Serbian)	
		2. Karadžić, U. (2004). Analysis fluid transients phenomena in hydraulic systems. <i>Master thesis,</i> <i>Faculty of Mechanical Engineering, University of</i> <i>Montenegro</i> , Podgorica, Montenegro. (in Serbian)	
		3. Monographs	
		3.1. Part of scientific monograph	
		1. Karadžić, U . (2005). Fluid transients and unsteady friction in hydraulic pipeline systems. <i>Monograph 35</i> years of mechanical engineering studies in Montenegro, University of Montenegro, Faculty of Mechanical Engineering, Podgorica, Montenegro. (in Serbian)	
		4. Journal papers	
		4.1. Journal with impact factor	
		1. Vujadinović R., Tombarević E., Karadžić U . (2017). Valorization of potentials of wind energy in Montenegro. <i>Thermal Science</i> , 21(5), 1893-1903. doi:10.2298/TSCI161201016V	

2. Karadžić U., Bulatović V., Bergant A. (2014).
Valve induced water hammer and column separation
in pipeline apparatus. Strojniški Vestnik-Journal of
Mechanical Engineering, 60(11), 742-754.
3. Karadžić U., Kovijanić V., Vujadinović R. (2014).
Possibility for hydro energetic utilization of relatively
researched water streams. Water Resources, 41(6),
774-781.
4. Karadžić U., Bergant A., Vukoslavčević P. (2009).
A novel Pelton turbine model for water hammer
analysis. Strojniški Vestnik-Journal of Mechanical
Engineering, 55(6), 369-380.
5. Bergant, A., Karadzic, U., Vitkovsky, J., Vuženović I. and Simmon A. B. (2005). A Discusto
Vusanovic, I., and Simpson, A.K. (2005). A Discrete
Effects of Unstandy Ding Flow, Studinički Vostnik
Lineers of Olisteady Tipe Flow. Strophiski Vestnik-
Journal of Mechanical Engineering, 51(11), 092-710.
4.2. Journal without impact factor
1. Bergant A., Karadžić U., Tijsseling A. (2017).
Developments in multiple-valve pipeline column
separation control. IOP Conf. Series: Journal of
Physics: Conf. Series, 813, doi:10.1088/1742-
6596/813/1/012015.
2. Bergant A., Karadžić U., Tijsseling A. (2016).
Dynamic water behavior due to one trapped air
pocket in a laboratory pipeline apparatus. <i>IOP</i>
Conf. Series: Earth and Environmental Science,
Vol.49, doi:10.1088/1755-1315/49/5/052007.
3. Vujadinović R., Karadžić U. (2016). Techno-
economic analysis of the project Možura wind
park with installed capacity of 46 MW,
Energetika-Ekonomija-Ekologija, ISSN 0354-
8651, god. XVIII, (in Montenegrin)
4. Vujadinovic R., Karadžić U. (2015). Education of
local governments as a way towards sustainable
Dellarge and study of Montoneous EISDR
Furning – Case study of Wiontenegro. EJSDR
Research Vol 1 Issue 1 nn 63 71
5 Bergant A Karadžić II (2015) Numerical and
experimental investigations of transient cavitating
nipe flow. JET Journal of Energy Technology
Vol.8. Issue 2. pp 31-42
6. Karadžić U. , Vujadinović R. (2013). Hvdro
potential of Montenegro – status, perspective of
 <i>European Journal of Sustainable Development</i> <i>Research</i>, Vol.1, Issue 1, pp 63-71. 5. Bergant A., Karadžić U. (2015). Numerical and experimental investigations of transient cavitating pipe flow. <i>JET Journal of Energy Technology</i>, Vol.8, Issue 2, pp 31-42. 6. Karadžić U., Vujadinović R. (2013). Hydro potential of Montenegro – status, perspective of

 utilization and legislative framework. <i>Energetika-Ekonomija-Ekologija</i>, ISSN 0354-8651, god. XV, (in Serbian) Karadžić U., Bergant A., Vukoslavčević P., Sijamhodžić E., Fabijan D. (2011). Water hammer caused by shut-off valves in hydropower plants. <i>JET Journal of Energy Technology</i>, Vol.4, Issue 2, pp 47-54. Vujadinović R., Bošković Lj., Karadžić U. (2011). Renewable energy sources as alternative to diesel generators in telecommunications companies. <i>Energetika-Ekonomija-Ekologija</i>, ISSN 0354-8651, god. XIII, br.2, pp 178-184. (in Serbian) Karadžić U., Bergant A., Vukoslavčević P. (2010). Water hammer caused by closure of turbine safety spherical valves. <i>IOP Conf. Series: Earth and Environmental Science</i>, Vol.12, pp 1-8.
5. Publications on conferences, symposiums and seminars
5.1. International conferences
1. Bergant A., Mazij J., Karadžić U . (2017). Design of water hammer control strategies in hydropower plants. 8 th International Scientific Conference IRMES 2017, Trebinje, Republic of Srpska, BiH, 07-09 September.
2. Kuljić S., Karadžić U . (2017). Hydraulic analysis of water supply system in town Nevesinje. 8 th <i>International Scientific Conference IRMES 2017</i> , Trebinje, Republic of Srpska, BiH, 07-09 September.
3. Karadžić U., Janković M., Strunjaš F. (2017). Influence of the initial conditions on water hammer in reservoir-pipeline-valve system. <i>3th International</i> <i>Conference on Accomplishments in Mechanical and</i> <i>Industrial Engineering</i> , Banja Luka, Republic of Srpska, BiH, 26-27 May.
4. Vuković D., Vilotijević V., Karadžić U . (2017). Hydraulic transients calculations on Komarnica HPP. <i>3th International Conference on Accomplishments in</i> <i>Mechanical and Industrial Engineering</i> , Banja Luka, Republic of Srpska, BiH, 26-27 May.

5. Bergant A., Karadžić U . (2015). Developments in valve-induced water hammer experimentation in a small-scale pipeline apparatus. <i>12th International</i>
<i>Conference on Pressure Surges, BHR Group,</i> Dublin, Ireland, 18-20 November.
6. Karadžić U. , Bergant A., Mavrič R., Strunjaš F., Buckstein S. (2015). Developments in pipeline filling and emptying experimentation in a laboratory pipeline apparatus. 6 th IAHR International Meeting of the Workgroup on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Ljubljana, Slovenia, September 09-11.
7. Bulatović V., Karadžić U ., Bergant A. (2013). Investigation of water hammer and column separation in unsteady friction dominated pipeline apparatus. 5 th <i>IAHR International Workshop on Cavitation and</i> <i>Dynamic Problems in Hydraulic Machinery, EPFL</i> , Lausanne, Switzerland, September 08-11.
8. Bergant A., Mazij, J., Karadžić U ., Gale, J. (2013). Assessment and mitigation of water hammer effects in hydropower plants on environment. <i>ENRE</i> 3 rd <i>International Conference Energy Technology</i> , Velenje, Slovenia, 20-21 June.
9. Prvulović S., Karadžić U . (2012). Application of analytical hierarchy process in the selection of optimal technological solutions. II <i>International Conference</i> <i>Industrial Engineering and Environmental Protection</i> <i>IIZS</i> , University of Novi Sad, Technical faculty of Mihajlo Pupin, Zrenjanin, Serbia, 31 st October.
10. Vujadinović R., Karadžić U . (2012). Use of aluminium in the production of cars. II <i>International</i> <i>Conference Industrial Engineering and Environmental</i> <i>Protection IIZS</i> , University of Novi Sad, Technical faculty of Mihajlo Pupin, Zrenjanin, Serbia, 31 st October.
11. Bergant A., Anderson A., Nicolet C, Karadžić U . Mazij J. (2012). Issues related to fluid transients in refurbished and upgraded hydropower schemes. <i>11th</i> <i>International Conference on Pressure Surges, BHR</i> <i>Group</i> , Lisbon, Portugal, 24-26 October.
12. Karadžić U. Bergant A. (2012). Pipeline apparatus for investigation of water hammer and column separation phenomena at the University of

Montenegro. 2 nd <i>IAHR Europe Congress</i> , TUM, Munich, Germany, 27-29 June.
13. Kovijanić V., Karadžić U . Vujadinović R. (2012). Assessment of possibility for hydro energetic utilization of small water streams. <i>Hidroenergia 2012</i> , Wroclaw, Poland, 23-26 May.
14. Karadžić U ., Bergant A., Vukoslavčević P. (2011). Influence of unsteady friction on hydraulic transients in a high-head hydropower plant. 4 th IAHR International Meeting of the Work Group on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Faculty of Mechanical Engineering, University of Belgrade, Belgrade, Serbia, October 26-28, pp 313-320.
15. Karadžić U ., Bergant A., Vukoslavčević P. (2009). Water hammer effects during Pelton turbine load rejection. 3 rd IAHR International Meeting of the Work Group on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems, Brno University of Technology, Brno, Czech Republic October 14-16, pp 443-452.
16. Karadžić U ., Bergant A., Vukoslavčević P. (2008). Parameters affecting water hammer in a high- head hydropower plant with Pelton turbines. 10 th International Conference on Pressure Surges, BHR Group, Edinburgh UK, 14-16 May, pp 351-364.
5.2. National and local conferences
1. Radonjić N., Perišić V., Karadžić U ., Vujadinović R. (2017). The analysis of investments in renewable energy. <i>V Symposium CG KO CIGRE</i> , Bečići, Montenegro, 09-12 May. (in Montenegrin)
2. Janković M., Strunjaš F., Bergant A., Karadžić U . (2017). Hydraulic transients due to gradual valve closure. <i>V Symposium CG KO CIGRE</i> , Bečići, Montenegro, 09-12 May. (in Montenegrin)
3. Rakočević S., Mićanović M., Bošković Lj., Karadžić U ., Vujadinović R. (2017). Criteria for the selection of the installed flow of small hydropower plants. <i>V Symposium CG KO CIGRE</i> , Bečići,

Montenegro, 09-12 May. (in Montenegrin)
4. Ćipranić I., Sekulić G., Bošković Lj., Karadžić U . (2016). Design principles of small hydropower plants and their integration into the environment. 6 th International conference GNP, Žabljak, Montenegro, 07-11 March. (in Montenegrin)
5. Mazij, J., Bergant, A., Karadžić, U . (2015). Critical parameters of hydraulic transient regimes in hydropower plants with complex water conveyance systems. <i>IV Symposium CG KO CIGRE</i> , Herceg Novi, Montenegro, 11-14 May.
6. Bošković, Lj., Karadžić, U ., Drašković, I., Mičeta, G., Stanojević, M., Vujadinović, R. (2015). Experience in the process of development of idea, design and realization of SHPP Vrelo. <i>IV Symposium</i> <i>CG KO CIGRE</i> , Herceg Novi, Montenegro, 11-14 May, (in Serbian).
7. Bulatović, V., Karadžić, U . (2013). Experimental apparatus for investigation of hydraulic transients. <i>8th</i> <i>International meeting "Renewable Energy Sources</i> <i>and Energy Efficiency"</i> , The Montenegrin Academy of Sciences and Arts, Podgorica, Montenegro, 7 Oktober, (in Serbian).
8. Giljen Z., Karadžić , U. (2013). Analysis of hydraulic transients on "Piva" HPP for the case of emergency shut-down of the Francis turbine unit. <i>III</i> <i>Symposium CG KO CIGRE</i> , Budva, Montenegro, 13- 16 May, (in Serbian).
9. Karadžić U., Bošković Lj., Vujadinović R. (2011). Hydroenergetic utilization of small water streams. <i>7th</i> <i>International meeting "Renewable Energy Sources</i> <i>and Energy Efficiency"</i> , The Montenegrin Academy of Sciences and Arts, Budva, Montenegro, 10 - 11 Oktober, (in Serbian).
10. Karadžić U ., Bergant A., Vukoslavčević P. (2011). Numerical modeling of extreme hydraulic transients on "Perućica" HPP. <i>II Symposium CG KO</i> <i>CIGRE, Budva,</i> Montenegro, 16-19 May, (in Serbian).
11. Giljen Z., Karadžić, U . (2011). Analysis of hydraulic transients on "Piva" HPP. <i>II Symposium CG</i> <i>KO CIGRE,</i> Budva, Montenegro, 16-19 May, (in

Serbian).
12. Vujadinović R., Bošković Lj., Karadžić U . (2011). Application of renewable energy sources in the telecomunication sector. <i>II International Symposium</i> <i>"Engineering, Ecology And Materials in Process</i> <i>Industry</i> , Jahorina, Bosnia and Hercegovina, 09-11 March (in Serbian).
13. Karadžić U ., Bergant A., Vukoslavčević P. (2009). Hydraulic transients on "Perućica" HPP with their influence on EES. <i>I Symposium CG KO CIGRE, Budva,</i> Crna Gora, 12-16 October, (in Serbian).
14. Jokić S., Nikolić Z., Karadžić U . (2009). Start-up and stop of renewed turbine units during the first phase of "Perućica" HPP modernisation. <i>I Symposium</i> <i>CG KO CIGRE, Budva</i> , Crna Gora, 12-16 October, (in Serbian).
15. Karadžić U. , Bergant A., Vukoslavčević P. (2009). Hydraulic transients in penstocks after load rejection of Pelton turbine unit. <i>14th Symposium on Thermal Science and Engineering of Serbia</i> , Sokobanja, Serbia, 13-16 October (in Serbian).
16. Karadžić U. , Vukoslavčević, P (2009). Water turbines for small hydro power plants. <i>Renewable</i> <i>Energy and Future of its Application, The</i> <i>Montenegrin Academy of Sciences and Arts,</i> Budva, Montenegro, 07-09 October, (in Serbian).
17. Vukoslavčević P., Karadžić U . (2007). Heat energy transfer in supercritical conditions. <i>Renewable</i> <i>Energy and Future of its Application, The</i> <i>Montenegrin Academy of Sciences and Arts</i> , Budva, Montenegro, (in Serbian).
18. Karadžić U. , Bergant A., Vukoslavčević P. (2007). Influence of unsteady friction on hydraulic transients in case of industrial hydropower system. 13 th Symposium on Thermal Science and Engineering of Serbia, Sokobanja, Serbia, 16-19 October, (in Serbian).
19. Karadžić U. , Bergant A., Vušanović I. (2006). Validation of convolution unsteady friction model for transients in hydraulic pipeline systems, <i>30. HIPNEF</i> <i>with international contribution</i> , Vrnjačka Banja,

	Serbia, 24-26 May, (in Serbian).
	20. Karadžić, U ., Bergant, A., Vušanović, I. (2005). Influence of unsteady friction on transients in hydraulic pipeline systems. 12 th Symposium on Thermal Science and Engineering of Serbia, Sokobanja, Serbia. 22-25 October, (in Serbian).
	6. Invited and plenary lectures
	6.1. With international contribution
	1. Bergant, A., Karadžić, U ., Vitkovsky, J., Vušanović, I., and Simpson, A.R. (2008). Discrete Gas Cavity Model with Convolution Based Unsteady Friction Model. <i>Meeting of the Advisory Group on</i> <i>Unsteady Friction</i> , Edinburgh, United Kingdom, 16 May 2008.
	6.2. Invited lectures
	1. Karadžić, U . (2016). Hydraulic transients investigations at University of Montenegro, <i>Hohai</i> <i>University, College of Mechanics and Materials,</i> Nanjing, China, 08.12.2016.
	2. Karadžić, U . (2013). Developments in water hammer and column separation experimentation in a newly built apparatus at the University of Montenegro. <i>Litostroj Power doo, Ljubljana,</i> Slovenia, 15.12.2013.
	3. Karadžić, U . (2010). Hydraulic transients investigations on Perućica HPP. <i>Litostroj Power doo, Ljubljana,</i> Slovenia, 15.12.2010.
Mentoring:	1. PhD Thesis
	2. Master Thesis
	 Janković, M. (2016). The influence of closing and opening of the valve at the end of pipeline on hydraulic transients. UCG, Faculty of Mechanical Engineering, Podgorica, Montenegro. (in Serbian) Strunjaš, F. (2016). Hydraulic transients as result of simultaneous closure of the valves at the beginning and the end of pipeline. UCG, Faculty

	 of Mechanical Engineering, Podgorica, Montenegro. (in Serbian) Bulatović, V. (2014). Experimental and numerical investigations of water hammer effects. UCG, Faculty of Mechanical Engineering, Podgorica, Montenegro. (in Serbian) Kuljić, S. (2012). Numerical calculation of water supply system Nevesinje. UCG, Faculty of Mechanical Engineering, Podgorica, Montenegro. (in Serbian) Giljen, Z. (2011). Hydraulic transients modelling on Piva HPP. UCG, Faculty of Mechanical Engineering, Podgorica, Montenegro. (in Serbian) Jokić, S. (2011). Development of the experimental installation for water hammer investigation. UCG, Faculty of Mechanical Engineering, Podgorica, Montenegro. (in Serbian) Nikolić, Z. (2011). Verification of water hammer numerical model by comparison with results of measurement obtained on the experimental facility. UCG, Faculty of Mechanical Engineering, Podgorica, Montenegro. (in Serbian)
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8.	Knowledge of Languages								
		Read		Write		Speak		Understand	
		Easily	Not	Easily	Not	Easily	Not	Easily	Not
			Easily		Easily		Easily		easily
	English	Х		Х		Х		Х	
	Others:Russian	Х			х		Х	Х	

9.	Computer Literacy				
	Basic:	Microsoft Office, Internet and Email, Corel Draw, Auto Cad			
	Programming: Fortran, Visual Basic				
	Hydraulic:	Wanda 3.0 (Deltares), AFT Fathom 6.0 (Applied Flow			
	-	Technology), AFT Impulse 4.0 (Applied Flow Technology)			

I

January 2015 by now

Associate Professor at Faculty of Mechanical Engineering on the following subjects: Pumps and Fans, Hydraulic turbines, Design of Power Plants, Hydropower Plants

October 2009 – January 2015

Assistant Professor at Faculty of Mechanical Engineering on the following subjects: Pumps and Fans, Hydraulic turbines, Design of Power Plants, Hydropower Plants

May 2000 – October 2009

Assistant at Faculty of Mechanical Engineering on the following subjects: Fluid Mechanics, Heat and Mass Transfer, Hydraulic turbines, Pumps and Fans

11. References 1. Dr Anton Bergant, Litostroj Power d.o.o., Ljubljana, Slovenia, anton.bergant@litostrojpower.eu 2. Dr Petar Vukoslavčević, Professor, Faculty of Mechanical Engineering, University of Montenegro, Podgorica, Montenegro, petarvuk@ac.me 3. Dr Igor Vušanović, Professor, Faculty of Mechanical Engineering, University of Montenegro, Podgorica, Montenegro, igorvus@ac.me 4.

12. International projects

2006 - 2008

"Measurements of the flow fields characteristics in high pressure conditions". Scientific and technological cooperation between Governments of Republic Slovenia and Montenegro. (member of working team)

2009-2010

Conecting Energy NCPs: A proactive network of National Contact Points in the Seventh Framework Programme under the Energy Theme, C-ENERGY financed by European Commission contract number 226548-2. (Energy NCP in Montengro)

2010 - 2011

"Measurements of turbulent flow characteristics in pipes and channels". Scientific and technological cooperation between Governments of Republic Slovenia and Montenegro. (member of working team)

2011-2012

Development of a small hydropower registry for Northern Montenegro, financed by EBRD. (member of working team)

2012-2013

Technical Monitoring and Evaluation Consultant for the Clinic Center in Podgorica", MNE-EE-P107992-CQ-S-09-C.1., financed by World Bank. (member of working team)

2012-2013

"Investigations of water hammer effects in a test facility". Scientific and technological cooperation between Governments of Republic Slovenia and Montenegro. (leader of working team)

2012-2014

"Training courses for public services in sustainable infrastructure development in Western Balkans- SDTRAIN" 530530-TEMPUS-1-2012-1-SE-TEMPUS-JPHES. (member of working team at the University of Montenegro)

2013-2014

"Western Balkans regional energy efficiency programme (REEP), Policy dialogue – Supporting ESCO projects in the public sector, Legal assistance for an ESCO project enabling legal framework, financed by EBRD. (technical expert for Montenegro) 2014-2015

"Investigations of hydraulic transients during filling and emptying of pipelines". Scientific and technological cooperation between Governments of Republic Slovenia and Montenegro. (leader of working team)

2015

"Western Balkans regional energy efficiency programme (REEP), Scoping study for Street Lighting Modernization Programme using ESCO approach in Montenegro, financed by EBRD. (technical expert for Montenegro)

2016 - 2017

"Investigation of the turbulent swirl flow influence on the energy parameters of the axial fans by using contemporary measurement techniques". Scientific and technological cooperation between Governments of Republic Serbia and Montenegro. (leader of working team)

2016 - 2018

Enhancement of Registry of Small Rivers for Small Hydropower Projects Potential of up to 10 MW in Montenegro, financed by EBRD. (Expert for hydraulic engineering and technical solutions for SHPPs)

13. National projects 2006 – 2008 "Mjerenje karakteristika strujnih polja u uslovima visokog pritiska". Projekat finansiran od strane Ministarstva prosvjete i nauke Crne Gore. (member of working team) 2008 – 2011 "Mjerenje karakteristika turbulentnih strujnih polja u cijevima i kanalima". Projekat finansiran od strane Ministarstva prosvjete i nauke Crne Gore. (member of working team) 2012 – 2014 "Investigations of transients phenomena in hydraulic and aeromechanical systems". Ministry of Science Montenegro. (member of working team)

1.	"Hydraulic transients in Perucica HPP: Water hammer analysis in
	system under pressure before commisioning tests – load rejection of
	turbine unit A1", Perućica HPP EPCG, Litostroj EI Slovenija, May
	2006, (member of working team).
2.	Energy NCP (National Contact Point) in Montenegro in Seventh
	Framework Programe EU (FP7) from May 2007 till June 2012
3.	"Investigations of the stress state in characteristics intersection of
	penstock C3 in Perućica HPP", September 2007 and January 2008
	(member of working team)
4.	"Analysis and determination of final as-built condition of the
	installation of air conditioning and heating on Agency for
	Telecomunications, Podgorica", March 2009, (member of working
_	team)
5.	"Preliminary assessment of possibility for hydro energetic utilization of
	Bjeluha and Moraca river ", March 2010, (member of working team)
6.	"Idea solutions for small hydropower plants (SHPP) on Komaraca
7	river", April 2010, (member of working team)
/.	"Hydropotential analysis of Komaraca river", April 2010, (member of
Q	"Proliminary assessment of nessibility for bydro enorgatic utilization of
0.	Moho water stream " May 2010 (member of working team)
0	"Preliminary assessment of nessibility for hydro energetic utilization of
).	Skrhusa river " July 2010 (member of working team)
10.	"Calculation of the stress state on A?" Piva" HPP generator shaft in the
10.	zone of crack's appearance". September 2010. (responsible designer for
	calculation of axial hydraulic force)
11.	"Preliminary assessment of hydro potential utilization of some rivers
	from Šavnik municipality", November 2010, (member of working team)
12.	"Preliminary assessment of hydro potential utilization of some rivers
	from Plav municipality", November 2010, (member of working team)
13.	"Preliminary assessment of hydro potential utilization of some rivers
	from Bijelo Polje municipality", November 2010, (member of working
	team)
14.	"Preliminary assessment of hydro potential utilization of some rivers
	from Kolašin municipality", November 2010, (member of working
. . .	team)
15.	Environmental impact assessment for the SHPP "Grlja", ECG Ltd.
17	2011 Technical solution for otherest system from direct surface. Tele
10.	", recinical solution for exhaust system from diesel engine", relenor
17	000, Fougorica, February 2011, (member of working team) Program of continuous monitoring of ponstock III on Porusica HDD"
1/.	"Program of continuous monitoring of pensiock in on refucica in r ,
18	"Preliminary assessment for nossibility of hydro energetic utilization of
10.	river Vrelo" Synergy doo Podgorica March 2011 (member of
	working team)
19	"Idea solution with pre-feasibility study for small hydronower plant
17.	(SHPP) on river Vrelo", Synergy doo, Podgorica, Anril 2011. (leader of
	working team)
20.	"Preliminary assessment for possibility of hydro energetic utilization of
•	river Ljevak", BEI doo, Podgorica, August 2011, (member of working
	team)

21. Idea project for Jara SHPP, Kronor doo, Podgorica, June 2012, (leader
of working team)
22. Environmental impact assessment of the SHPP "Jara", Kronor doo, 2012
23. Idea project for Vrelo SHPP, Synergy doo, Podgorica, October 2012, (leader of working team)
24. Environmental impact assessment of Babino polje SHPP, Kronor doo,
25. Idea project for Rastak SHPP, Kol-energy doo, Kolasin, Montenegro
February 2013, (member of working team) 26 Idea project for Babina Polia SHPP Kropper day Podgarica March
20.10ca project for Dablie Folge STITT, Kronor 000, Fougerica, Waren 2013. (member of working team)
27. Idea project for Meteh SHPP, Kronor doo, Podgorica, March 2013,
(member of working team) 28 Main design for Vrelo SHPP Synergy doo Podgorica May 2013
(leader of working team)
29. "Preliminary assessment for possibility of hydro energetic utilization of river Sjevernica", BMR, Oxon, UK May 2013, (member of working team)
30. "Development of Conceptual design for reconstruction of water supply
system and construction of SHPP on Krkori water source in
municipality of Andrijevica (Montenegro)", UNDP – Montenegro,
May-June 2013, (member of working team)
31. "Idea solution for small hydropower plant (SHPP) on river Bistrica Majstorovina", Synergy doo, Podgorica, November 2013, (member of working team)
32. "Idea solution for small hydropower plant (SHPP) on river Djuricka with tributaries", Triangle inc, New York, November 2013, (member of working team)
33. "Idea solution for small hydropower plant (SHPP) on river Vrbnica",
Hydropol, Prague, November 2013, (member of working team)
34. "Idea solution for small hydropower plant (SHPP) on river
Kaludarska", Hydropol, Prague, November 2013, (member of working team)
35. Main design for Jara SHPP, Kronor doo, Podgorica, April 2014, (member of working team)
36. Idea solution for small hydropower plant (SHPP) on river Ljevak,
Simes Engineering, Podgorica, April 2014, (member of working team)
37. Main design for Babino Polje SHPP, Kronor doo, Podgorica, May 2014, (member of working team)
38. Idea solution for small hydropower plant (SHPP) on river Leverska, BB
Hydro, Podgorica, May 2014, (member of working team)
39. Idea solution for small hydropower plant (SHPP) on river Ljevak,
Simes ingeniering Ltd., 2014, (member of working team)
40. Idea solution for small hydropower plant (SHPP) on river Slatina, BB
Hydro, 2014, (member of working team)
41. Idea solution for small hydropower plant (SHPP) on river Bistrica Lipovska, BB Hydro, 2014. (member of working team)

	42. Idea solution for small hydropower plant (SHPP) on river Bistrica
	Lipovska, BB Hydro, 2014. (member of working team)
	43. Idea solution for small hydropower plant (SHPP) on river Ratnia,
	Lietonis automotive Ltd. 2014. (member of working team)
	44. Idea solution for small hydronower plant (SHPP) on river Požnia.
	Lietonis automotive Ltd 2014 (member of working team)
	45. Idea solution for small hydronower plant (SHDD) on river Trnovečka
	45. Idea solution for small hydropower plant (SHFF) on fiver Trilovacka,
	Ljetopis automotive Ltu, 2014. (member of working team)
	46. Idea solution for small hydropower plant (SHPP) on river Skrbusa,
	Soko group, 2014. (member of working team)
	47. Idea solution for small hydropower plant (SHPP) on river Slatina, BB
	Hydro, 2014. (member of working team)
	48. Idea project of the wind park "Možura", Možura wind park Ltd., 2014.
	(member of working team)
	49. Main design of the SHPP "Raštak 1", KOL ENERGY Ltd., 2014.
	(member of working team)
	50. Idea solution for small hydropower plant (SHPP) on river Radmanska.
	SHPP Montenegro 2. 2014. (member of working team)
	51. Preliminary assessment for possibility of hydro energetic utilization of
	Umski water stream Synergy 2015 (member of working team)
	52 Proliminary assassment for possibility of hydro energetic utilization of
	52. I reminiary assessment for possibility of nyuro energetic utilization of Dunconsisti water stream. Municipility Volcšin, 2015. (member of
	Kupocajski water stream, Municipinty Kolasin, 2015. (member of
	53. Preliminary assessment of possibility for hydro energetic utilization for
	SHPP Sitarička, 2015. (member of working team)
	54. Preliminary assessment of possibility for hydro energetic utilization for
	SHPP Rzačka, 2015. (member of working team)
	55. Preliminary assessment of possibility for hydro energetic utilization of
	Vrelo Ljućansko, 2015. (member of working team)
	56. Preliminary assessment of the possibility of using the hydropower
	potential of water courses for SHP "Štitska", 2015. (member of
	working team)
	57. Main design of the SHPP "Bistrica Majstorovina", Hidro Bistrica, 2015.
	(member of working team)
	58. Idea solution for small hydropower plant (SHPP) on river Šeremet.
	Nord Electro, 2015. (member of working team)
	59 Idea solution for small hydronower plant (SHPP) on river Vrhnica
	MHE Vrbnica d o 2015 (member of working team)
	60 Idea solution for small hydronower plant (SHPP) on river Vođenički
	notale Nord Floatro 2015 (member of working teem)
	potok, Noru Electro, 2015. (member of working team)
	61. Preliminary assessment of the possibilities for using hydropower
	potential of the Crnja river, the municipality of Rozaje, 2015. (member
	of working team)
	62. Idea solution for small hydropower plant (SHPP) on river Meteška,
	Normal Company, 2015. (member of working team)
	63. Idea solution for small hydropower plant (SHPP) on river Bukeljka,
	Artek Ltd. , 2015. (member of working team)
	64. Idea solution for small hydropower plant (SHPP) on river Lazanjska,
	Erlang Ltd., 2015. (member of working team)
	65. Preliminary assessment of the possibility of using the hydropower
	potential of river Bukovica, municipality Šavnik, 2016. (member of
	working team)
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- 66. Preliminary assessment of the possibility of using the hydropower potential of watercourses for SHPP Perućica, municipalities Andrijevica, 2016. (member of working team)
- 67. Idea solution for small hydropower plant (SHPP) on river Mišnjića potok, 2016. (member of working team)
- 68. Idea solution for small hydropower plant (SHPP) on river Bukovička Vrela, Water group Ltd., 2016. (member of working team)
- 69. Preliminary assessment of the possibility of using the hydropower potential of river Bjelojevićka, municipality Mojkovac, 2016, (member of working team)
- 70. Main design for Meteh SHPP, Kronor doo, Podgorica, 2016, (member of working team)
- 71. Main design of the wind park "Možura", Možura wind park Ltd., 2016. (member of working team)
- 72. Main design for small hydropower plant (SHPP) on river Ljevak, Simes engineering Ltd., 2016, (member of working team)

15.	Memberships				
	Member of IAHR (International Association for Hydro-Environment Engineering and Research) since January 2009				
	Member of Engineering Chamber of Montenegro since December 2009				
	Member of CG KO CIGRE since January 2012				

16.	Awards					
	Annual award from Engineering Chamber of Montenegro for achievements in professional activities in 2013					

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Uroš Karadžić

11.12.2017.

Signature

Date



MENTORSTVO

PREDLOŽENI MENTOR/I									
	Titula, ime i prezime		Ustanova i država		Naučna oblast				
Mentor	Prof.dr Uroš Karadžić		Univerzitet Crne Gore, Mašinski fakultet, Crna Gora		Primjenjena mehanika fluida, Hidroenergetika				
Ko-mentor	_		-		-				
Sjednica Vijeća organiz predlaganje mentora	acione jedinice na	kojoj	je izvršeno 39. sjednica Vijeća, 27		27.03.2018.				
KOMPETENCIJE MENTORA									
	(pet objavljenih rad	lova u	relevantnim	časopisima)					
	 Vujadinović R., Tombarević E., Karadžić U. (2017). Valorization of potentials of wind energy in Montenegro. <i>Thermal Science</i>, 21(5), 1893-1903. ISSN 0354-9836, E- ISSN 2334-7163 								
	 Karadžić U., Bulatović V., Bergant A. (2014). Valve induced water hammer and column separation in pipeline apparatus. <i>Strojniški</i> <i>Vestnik-Journal of Mechanical Engineering</i>, 60(11), 742-754. ISSN 0039- 2480. 								
Mentor	Karadžić U. , Kovijanić V., Vujadinović R. (2014). Possibility for hydro energetic utilization of relatively researched water streams. <i>Water Resources</i> , 41(6), 774-781. ISSN 0097-8078.								
	 Karadžić U., Bergant A., Vukoslavčević P. (2009). A novel Pelton turbine model for water hammer analysis. <i>Strojniški Vestnik-Journal of</i> <i>Mechanical Engineering</i>, 55(6), 369-380. ISSN 0039-2480. 								
	 Bergant, A., Karadžić, U., Vitkovsky, J., Vušanović, I., and Simpson, A.R. (2005). A Discrete Gas-Cavity Model that Considers the Frictional Effects of Unsteady Pipe Flow. Strojniški Vestnik-Journal of Mechanical Engineering, 51(11), 692-710. ISSN 0039-2480. 								
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101	Broi mag	vistran	ata	B	roi dokto	pranata			
		ukuppo	Trenut	tno Ukupno					
Mentor	2		9	0		0			
Ko-mentor		-			~				
Datum i oviera (pečat i potpis odgovorne osobe)									
U Podgorici, XX 03 20	18.	2 000)						
(navesti datum) DEKAN <u>prof.dr Igor Vušanović</u> M P									