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| **Name of teacher:** | Elvis Žic |

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| **Employed at:**<br>**Since:** | Faculty of Civil Engineering, University of Rijeka<br>10/01/2002 |

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| **Title:**<br>**Since:**<br>**In:** | Assistant Professor<br>06/01/2016 (inaugural lecture were done 05/30/2016)<br>Scientific area: technical sciences, scientific field: construction, scientific branch: Fluid mechanics |

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| **e-mail address, web page** | elvis.zic@uniri.hr , http://portal.uniri.hr/portfelj/1249 |
| **Knowledge of foreign languages:** | English, Italian |

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| **Qualifications** | **- date of birth, nationality:** 11/21/1977 , Croatian<br>**- First degree obtained at:** Faculty of Civil Engineering, University of Rijeka<br><br>**- Master degre obtained at:** Faculty of Civil Engineering, Architecture and Geodesy, University of Split<br><br>**- Ph.D. degree obtained at:** Faculty of Civil Engineering, University of Rijeka<br>**- additional education:**<br>1. 07/15 – 09/01/2000 (as a student), Oviedo, Gijon (Spain)<br>AUTORIDAD PORTUARIA DE GIJON, Research Institute of the sea and coastline, design objects on the sea, marina and breakwater<br>2. 06/14 – 06/18/2010, Aussois, France<br>Summer school entitled "Nonsmooth Mechanics: Modeling and Simulation"<br>3. 09/01 – 12/01/2010, Glasgow, (Faculty of Civil Engineering, University of Glasgow)<br>Numerical modeling of the mudflow and debris flow propagation, Finite Element Method (FEM), Discrete Element Method (DEM).<br>4. 09/01 – 09/14/2013, Salerno, International LARAM Summer School (Landslide Risk Assessment and Mitigation), (Faculty of Civil Engineering, University of Salerno, Italy)<br>Mitigation and risk assessment of the consequences of landslides and debris flows, numerical modeling of debris flow and mudflow propagation and occurrence of lahar phenomena.<br>5. 01/15 – 02/27/2013, Kyoto, Uji, Disaster Prevention Research Institute - DPRI, Kyoto University<br>Numerical modeling of debris flow and mudflow propagation, development physical models of debris flow propagation.<br>**- previous employments:** / |

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| **List of papers published in scientific journals** | 1. Žic, E., Banko, P., Lešnik, L., *Hydraulic analysis of gate valve using Computational Fluid Dynamics (CFD),* Sci. Rev. Eng. Env. Sci. (2020), 29 (3), pp. 275-288, doi: 10.22630/PNIKS.2020.29.3.23<br>2. Žic, E., Černeka, P, Biluš, I., *Hydrodynamic Analysis of Fluid Obstruction Around Different Geometric Bodies,* International Journal for Engineering Modelling, 33 (2020), 1-2; pp. 59-77, doi:10.31534/engmod.2020.1-2.ri.05m<br>3. Volf, G., Žic, E., Ožanić, N., *Prediction of groundwater level fluctuations on Grohovo landslide using rule based regression,* Engineering review, 38 (2018), 1; pp. 51-61<br>4. Žic, E., Arbanas, Ž., Bićanić, N., Ožanić, N., *A model of mudflow propagation downstream from the Grohovo landslide near the city of Rijeka (Croatia)*, Natural hazards and earth system sciences. 15 (2015), 1; pp. 293-313<br>5. Žic, E., Bićanić, N., Koziara, T., Ožanić, N., *The numerical modelling of suspended sediment propagation in small torrents with the application of the Contact Dynamics method*, Tehnical Gazzette, 21 (2014), 5; pp. 939-952<br>6. Vivoda, M., Benac, Č., Žic, E., Đomlija, P., Dugonjić Jovančević, S., *Geohazards in the Rječina valley in the past and present*, Croatian Waters: Journal of Water Resources, 20 (2012), 81, pp. 105-116<br>7. Benac, Č., Ružić, I., Žic, E., Gržančić, Ž., Kraljić, R., *The vulnerability of natural beaches in the Kvarner area*, Prirodoslovna istraživanja riječkog područja II, Arko-Pijevac, M., Surina, B. (eds.), Rijeka, Natural History Museum Rijeka, Rijeka, 2010, pp. 97-107.<br>8. Čaušević, M., Špalj, I., Žic, E., *Wind action on bridges according to the European standard*, Građevinar, 60 (2008), 1, pp. 21-35 |

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| | 9. Žic, E., Ožanić, N., *Methods for Roughness Factor Determine in River Bed*, Proceedings of the Faculty of Civil Engineering, University of Rijeka, 11 (2008), pp. 81-101<br>10. Benac, Č., Ružić, I., Žic, E., *The vulnerability of coasts in the Kvarner area*, Journal of Maritime Studies, 44 (2007), pp. 201-214<br>11. Žic, E., Vasović, D., *The origin of water and its meaning for planet Earth,* Proceedings of the Faculty of Civil Engineering, University of Rijeka, 22 (2019), 1; pp. 141-158, doi:10.32762/zr.22.1.9<br>12. Kolar, I., Volf, G., Žic, E., *Hydraulic analysis of different cross sections and channel covering types,* Proceedings of the Faculty of Civil Engineering, University of Rijeka, 21 (2018), 1; pp. 193-207, doi:10.32762/zr.21.1.12<br>13. Reinić, I., Žic, E., *Physical Model of Water Seepage Through Porous Medium,* Proceedings of the Faculty of Civil Engineering, University of Rijeka, 21 (2018), 1; pp. 209-224, doi:10.32762/zr.21.1.13<br>14. Karabegović, A., Žic, E., Biluš, I., Škerlavaj, A., *Experimental investigation of friction and resistence coefficients in pipe system under pressure,* Proceedings of the Faculty of Civil Engineering, University of Rijeka, 20 (2018), 1; pp. 27-42, doi:10.32762/zr.20.1.2<br>15. Pamić, M., Žic, E., Biluš, I., Lešnik, L., *Physical model of forming the boundary layer,* Proceedings of the Faculty of Civil Engineering, University of Rijeka, Vol. XX, 20 (2018), 1; pp. 43-58, (https://www.bib.irb.hr/954894)<br>16. Brenko, M., Žic, E., Đuričanin, L., *Laboratory measurement of flow parameters due to appearance of hydraulic transients,* Proceedings of the Faculty of Civil Engineering, University of Rijeka, 21 (2018), 1; pp. 145-162, doi:10.32762/zr.21.1.9<br>17. Komljenović, S., Žic, E., Laloš, S., *Experimental investigations on the physical model of the Pelton turbine,* Proceedings of the Faculty of Civil Engineering, University of Rijeka, 19 (2017), pp. 37-52<br>18. Obuljen, M., Žic, E., Ožanić, N., *Defining the coefficients of local losses in pipe systems under pressure*, Proceedings of the Faculty of Civil Engineering, University of Rijeka, 18 (2015), pp. 81-92<br>19. Večerina, A., Žic, E., Ožanić, N., *The application of the Hardy-Cross method in pipe systems under pressure*, Proceedings of the Faculty of Civil Engineering, University of Rijeka, 18 (2015), pp. 93-104<br>20. Žic, E., Bićanić, N., Ožanić, N., Movement processes of debris flow and mudflow, Round table with international participation "Nanos u vodnim sustavima - stanje i trendovi", Oskoruš, D., Rubinić, J. (eds.), Varaždin, Hrvatsko hidrološko društvo, 2020. pp. 229-240, https://www.bib.irb.hr/1076227<br>21. Žic, E., Bićanić, N., Koziara, T., *Application of the SOLFEC computer code for analysis of the debris flow propagation,* Round table with international participation "Nanos u vodnim sustavima - stanje i trendovi", Oskoruš, D., Rubinić, J. 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Stepić, M., Žic, E., *Snowmaking system for cross-country skiing Javorova kosa,* 7th Croatian Water Conference with international participation: Croatian Waters in Environmental and Nature Protection, Biondić, D., Holjević, D., Vizner, M. (eds.), Opatija, 2019, pp. 965-973<br>25. Volf, G., Krvavica, N., Dragičević, N., Žic, E., *Northern adriatic watershed management regarding the state of the marine ecosystem,* HYDROLOGY IN THE SERVICE OF WATER PROTECTION AND USE, AND FLOOD RISK REDUCTION - MODERN TRENDS AND APPROACHES, Rubinić, J., Ivanković, I., Bušelić, G. (eds.), Brela, MIODIO, 2018, pp. 123-132<br>26. Žic, E., Ožanić, N., Volf, G., Sušanj Čule, I., *Analysis of surface water and groundwater in the Grohovo landslide area,* HYDROLOGY IN THE SERVICE OF WATER PROTECTION AND USE, AND FLOOD RISK REDUCTION - MODERN TRENDS AND APPROACHES, Rubinić, J., Ivanković, I., Bušelić, G. (eds.), Brela, MIODIO, 2018, pp. 143-152, https://www.bib.irb.hr/963035<br>27. 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40. Žic, E., Vranješ, M., Ožanić, N., *One-dimensional unsteady flow model in the non-prismatic Botonega channel*, Balwois 2010, Morell, M., (ed.), Ohrid, Faculty of Civil Engineering „Sts. Cyril and Methodius", University in Skopje, 2010, pp. 94-95

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43. Ožanić, N., Arbanas, Ž., Mihalić, S., Sušanj, I., Žic, E., Ružić, I., Dragičević, N., *Croatian-Japanese project on floods and landslides: research activities and application of results*, Flood protection in Croatia - Roundtable, Biondić, D., Holjević, D. (eds.), Vukovar, Croatian Waters, 2012, pp. 171-188

44. Ožanić, N., Ružić, I., Sušanj, I., Žic, E., *Planed Hydrotechnical Research in Rijeka Area in Croatian-Japanese Project*. Book of extended abstract of 1st Project Workshop: Risk identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia – International experience, Arbanas, Ž., Mihalić, S., Marui, H. (eds.), Dubrovnik, University of Zagrebu, 2012.

45. Ožanić, N., Karleuša, B., Orbanić, J., Žufić, E., Žic, E., *High Water Wawes Hydrograms – The Example of Hydrological Analysis for the Križ Accumulation*, Proceedings of 3rd Croatian Conference on Waters Croatian waters in the 21st century, Gereš, D. (ed.), Osijek, Croatian Waters, 2003, pp. 91-99

46. Ožanić, N., Sušanj, I., Žic, E., Krvavica, N., Ružić, I., Dragičević, N., Volf, G., Karleuša, B., *Disaster Mitigation of Floods and Debris Flow at Rijeka Region through Croatian-Japanese Collaboration*, 4th Workshop of the Japanese-Croatian Project on „Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia", Book of abstracts, Vlastelica, G., Andrić, I., Salvezani, D. (eds.), Split, Faculty of Civil Engineering, Architecture and Geodesy, University of Split, 2013, pp. 43-45

47. Volf, G., Žic, E., Ožanić, N., *Relationship between atmospheric conditions and groundwater level on Grohovo landslide*, 4th Workshop of the Japanese-Croatian Project on „Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia", Vlastelica, G., Andrić, I., Salvezani, D. (eds.), Split, Faculty of Civil Engineering, Architecture and Geodesy, University of Split, 2013, 6 pages

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| | 48. Yamashiki, Y., Kurokawa, S., Žic, E., Takahashi, T., Rozainy, M.R., Sušanj, I., Fujiki, S., *Development of Hydro-Debris 2D and 3D applicable for stony debris flow. Landslide and flood hazard assessment*, Arbanas, Mihalić, S., Arbanas, Ž. (eds.), Zagreb, City of Zagreb, Emergency Management Office, 2013.<br>49. Žic, E., Cuomo, S., Ožanić, N., Bićanić, N., *Application of SPH method to create numerical models of Debris flow propagation*, 4th Workshop of the Croatian-Japanese Project „Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia“, Vlastelica, G., Andrić, I., Salvezani, D. (eds.), Split, Faculty of Civil Engineering, Architecture and Geodesy, University of Split, 2013.<br>50. Žic, E., Yamashiki, Y., Kurokawa, S., Fujiki, S., Ožanić, N., *Physical modelling of debris flow movement - laboratory research*, 4th Workshop of the Japanese-Croatian Project on „Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia“, Vlastelica, G., Andrić, I., Salvezani, D. (eds.), Split, Faculty of Civil Engineering, Architecture and Geodesy, University of Split, 2013. |

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| **List of publications which serve as a proof of teaching qualifications** | 1. Žic, E., Banko, P., Lešnik, L., *Hydraulic analysis of gate valve using Computational Fluid Dynamics (CFD),* Sci. Rev. Eng. Env. Sci. (2020), 29 (3), pp. 275-288, doi: 10.22630/PNIKS.2020.29.3.23<br>2. Žic, E., Černeka, P, Biluš, I., *Hydrodynamic Analysis of Fluid Obstruction Around Different Geometric Bodies,* International Journal for Engineering Modelling, 33 (2020), 1-2; pp. 59-77, doi:10.31534/engmod.2020.1-2.ri.05m<br>3. Volf, G., Žic, E., Ožanić, N., *Prediction of groundwater level fluctuations on Grohovo landslide using rule based regression,* Engineering review, 38 (2018), 1; pp. 51-61<br>4. Žic, E., Arbanas, Ž., Bićanić, N., Ožanić, N., *A model of mudflow propagation downstream from the Grohovo landslide near the city of Rijeka (Croatia)*, Natural hazards and earth system sciences. 15 (2015), 1; pp. 293-313<br>5. Žic, E., Bićanić, N., Koziara, T., Ožanić, N., *The numerical modelling of suspended sediment propagation in small torrents with the application of the Contact Dynamics method*, Tehnical Gazzette, 21 (2014), 5; pp. 939-952<br>6. Vivoda, M., Benac, Č., Žic, E., Đomlija, P., Dugonjić Jovančević, S., *Geohazards in the Rječina valley in the past and present*, Croatian Waters: Journal of Water Resources, 20 (2012), 81, pp. 105-116<br>7. Žic, E., Bićanić, N., Ožanić, N., Movement processes of debris flow and mudflow, Round table with international participation "Nanos u vodnim sustavima - stanje i trendovi", Oskoruš, D., Rubinić, J. (eds.), Varaždin, Hrvatsko hidrološko društvo, 2020. pp. 229-240, https://www.bib.irb.hr/1076227<br>8. Žic, E., Bićanić, N., Koziara, T., *Application of the SOLFEC computer code for analysis of the debris flow propagation,* Round table with international participation "Nanos u vodnim sustavima - stanje i trendovi", Oskoruš, D., Rubinić, J. (eds.), Varaždin, Hrvatska: Hrvatsko hidrološko društvo, 2020, pp. 241-251, https://www.bib.irb.hr/1076228<br>9. Žic, E., Ožanić, N., *Variability of groundwater levels on the Grohovo landslide for the period 2016-2018,* 7th Croatian Water Conference with international participation: Croatian Waters in Environmental and Nature Protection, Biondić, D., Holjević, D., Vizner, M. (eds.), Opatija, 2019, pp. 483-491<br>10. Ožanić, N., Sušanj Čule, I., Volf, G., Krvavica, N., Žic, E., *Hydrologic analysis variations of the water Vrana lake on the island Cres,* 7th Croatian Water Conference with international participation: Croatian Waters in Environmental and Nature Protection, Biondić, D., Holjević, D., Vizner, M. (eds.), Opatija, 2019, pp. 311-320, https://www.bib.irb.hr/1043385<br>11. Žic, E., Ožanić, N., Volf, G., Sušanj Čule, I., *Analysis of surface water and groundwater in the Grohovo landslide area,* HYDROLOGY IN THE SERVICE OF WATER PROTECTION AND USE, AND FLOOD RISK REDUCTION - MODERN TRENDS AND APPROACHES, Rubinić, J., Ivanković, I., Bušelić, G. (eds.), Brela, MIODIO, 2018, pp. 143-152, https://www.bib.irb.hr/963035<br>12. Žic, E., Ožanić, N., Volf, G., Sušanj Čule, I., *Estimation of the occurence of debris flow and mudflow propagation in the middle watercourse of Rječina,* HYDROLOGY IN THE SERVICE OF WATER PROTECTION AND USE, AND FLOOD RISK REDUCTION - MODERN TRENDS AND APPROACHES, Rubinić, J., Ivanković, I., Bušelić, G. (eds.), Brela, MIODIO, 2018, pp. 153-164, https://www.bib.irb.hr/963036<br>13. Pamić, M., Žic, E., Biluš, I., Lešnik, L., *Physical model of forming the boundary layer,* Proceedings of the Faculty of Civil Engineering, University of Rijeka, Vol. XX, 20 (2018), 1; pp. 43-58, (https://www.bib.irb.hr/954894)<br>14. Brenko, M., Žic, E., Đuričanin, L., *Laboratory measurement of flow parameters due to appearance of hydraulic transients,* Proceedings of the Faculty of Civil Engineering, University of Rijeka, 21 (2018), 1; pp. 145-162, doi:10.32762/zr.21.1.9<br>15. Sušanj, I., Gjetvaj, G., Ožanić, N., Žic, E., *Mechanisms for the formation of gradual partial collapse of earth dam – Botonega dam*, Proceedings of the Faculty of Civil Engineering, University of Rijeka, 13 (2010), pp. 69-89<br>16. Žic, E., Ožanić, N., *Methods for Roughness Factor Determine in River Bed*, Proceedings of the Faculty of Civil Engineering, University of Rijeka, 11 (2008), pp. 81-101 |

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| | 17. Žic, E., Sušanj, I., Ružić, I., Ožanić, N., Yamashiki, Y., *Hydrologic Data Analysis for the Grohovo Landslide Area*, Landslide and flood hazard assesment, Abstract Proceedings, Arbanas, Mihalić, S., Arbanas, Ž. (eds.), Zagreb, City of Zagreb, Emergency Management Office, 2014, pp. 97-106<br>18. Žic, E., Yamashiki, Y., Kurokawa, S., Fujiki, S., Ožanić, N., Bićanić, N., *Validation study of debris flow movement – laboratory experiments and numerical simulation*, Landslide and flood hazard assessment, Abstract Proceedings, Arbanas, Mihalić, S., Arbanas, Ž. (eds.), Zagreb, City of Zagreb, Emergency Management Office, 2014, pp. 111-116<br>19. Ožanić, N., Sušanj, I., Ružić, I., Žic, E., Dragičević, N., *Monitoring and analyses for the working group II (WG2) in Rijeka area in Croatian-Japanese project*, 2nd Project Workshop, Monitoring and Analyses for disaster mitigation of landslides, Debris flow and floods, Book of Proceedings. 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| **Leader of the following research projects** | / |

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| **Participant in the following research projects** | 1. The Scientific basis for the development of irrigation in the Republic of Croatia (project leader Professor Nevenka Ožanić)<br>2. Hydrology of sensitive water resources in karst (project leader Professor Nevenka Ožanić)<br>3. Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia (project leader Professor Nevenka Ožanić)<br>4. Hydrology of water resources and risk identification of flooding and mudflows in the karst area (project leader Professor Nevenka Ožanić) |

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| **Supervision of MSc theses** | / |

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| **Supervision of PhD theses** | / |

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| **Examination of MSc theses** | / |

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| **Examination of PhD theses** | 2 |