

Name of teacher:	Elvis Žic
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Employed at: Since:	Faculty of Civil Engineering, University of Rijeka 10/01/2002
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Title: Since: In:	Assistant Professor 06/01/2016 (inaugural lecture were done 05/30/2016) Scientific area: technical sciences, scientific field: construction, scientific branch: Fluid mechanics
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Knowledge of foreign languages:	English, Italian
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Qualifications	- date of birth, nationality: 11/21/1977 , Croatian - First degree obtained at: Faculty of Civil Engineering, University of Rijeka - Master degree obtained at: Faculty of Civil Engineering, Architecture and Geodesy, University of Split - Ph.D. degree obtained at: Faculty of Civil Engineering, University of Rijeka - additional education: 1. 07/15 – 09/01/2000 (as a student, IAESTE Organization), Oviedo, Gijon (Spain) AUTORIDAD PORTUARIA DE GIJON, Research Institute of the sea and coastline, design objects on the sea, marina and breakwater 2. 06/14 – 06/18/2010, Aussois, France Summer school entitled "Nonsmooth Mechanics: Modeling and Simulation" 3. 09/01 – 12/01/2010, Glasgow, (Faculty of Civil Engineering, University of Glasgow) Numerical modeling of the mudflow and debris flow propagation, Finite Element Method (FEM), Discrete Element Method (DEM). 4. 09/01 – 09/14/2013, Salerno, International LARAM Summer School (Landslide Risk Assessment and Mitigation), (Faculty of Civil Engineering, University of Salerno, Italy) 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. 5. 01/15 – 02/27/2013, Kyoto, Uji, Disaster Prevention Research Institute - DPRI, Kyoto University Numerical modeling of debris flow and mudflow propagation, development physical models of debris flow propagation. - previous employments: /
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List of papers published in scientific journals	1. Travaš, V., Gal, E., Lučin, I., Žic, E. <i>Digital twin for a real-time leakage detection and localization in pressurized piping systems</i>, Journal of Hydroinformatics, jh2025304, in the publication phase (paper accepted) 2. Kevorkijan, L., Žic, E., Lešnik, L., Biluš, I., <i>Settling of Mesoplastics in an Open-Channel Flow</i>, Energies (Basel), 15 (2022), 23; 8786, 14. doi: 10.3390/en15238786 3. Volf, G., Sušanj Čule, I., Žic, E., Zorko, S., <i>Water Quality Index Prediction for Improvement of Treatment Processes on Drinking Water Treatment Plant</i>, Sustainability, 14 (2022), 18; 11481, 16. doi: 10.3390/su141811481 4. Žic, E., Černeka, P., Biluš, I., <i>Hydrodynamic Analysis of the Fluid Flow Around a Symmetric Hydrofoil</i>, Fluid Dynamics, 56 (2021), 4; 460-472. doi: 10.1134/S0015462821040133 5. Žic, E., Banko, P., Lešnik, L., <i>Hydraulic analysis of gate valve using Computational Fluid Dynamics (CFD)</i>, Sci. Rev. Eng. Env. Sci. (2020), 29 (3), pp. 275-288, doi: 10.22630/PNIKS.2020.29.3.23 6. Žic, E., Černeka, P., Biluš, I., <i>Hydrodynamic Analysis of Fluid Obstruction Around Different Geometric Bodies</i>, International Journal for Engineering Modelling, 33 (2020), 1-2; pp. 59-77, doi:10.31534/engmod.2020.1-2.ri.05m 7. Volf, G., Žic, E., Ožanić, N., <i>Prediction of groundwater level fluctuations on Grohovo landslide using rule based regression</i>, Engineering review, 38 (2018), 1; pp. 51-61 8. Žic, E., Arbanas, Ž., Bičanić, N., Ožanić, N., <i>A model of mudflow propagation downstream from the Grohovo landslide near the city of Rijeka (Croatia)</i>, Natural hazards and earth system sciences. 15 (2015), 1; pp. 293-313
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9. Žic, E., Bičanić, 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
10. Vivoda, M., Benac, Č., Žic, E., Domlija, 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
11. 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.
12. Čaušević, M., Špalj, I., Žic, E., *Wind action on bridges according to the European standard*, Građevinar, 60 (2008), 1, pp. 21-35
13. 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
14. Benac, Č., Ružić, I., Žic, E., *The vulnerability of coasts in the Kvarner area*, Journal of Maritime Studies, 44 (2007), pp. 201-214
15. Žic, E., Golja, G., *Experimental determination of hydraulic jump characteristics behind a wide sill spillway*, Proceedings (Faculty of Civil Engineering, University of Rijeka), 27 (2024), 1; 157-173. doi: 10.32762/zr.27.1.10
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20. Žic, E., Ožanić, N., *The fundamentals of risk assessments on the geohazard consequences*, Water Resources Management: New Perspectives and Innovative Practices, International Symposium. Novi Sad: Futura Novi Sad, 2021. pp. 51-56
21. Žic, E., Pilat, M., *Computational Fluid Dynamics and Fluid Flow Visualization Methods*, Proceedings (Faculty of Civil Engineering, University of Rijeka), 24 (2021), 81-101. doi: 10.32762/zr.24.1.5
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26. Karabegović, A., Žic, E., Biluš, I., Škerlavaj, A., *Experimental investigation of friction and resistance 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
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29. 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
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41. Žic, E., Vivoda, M., Benac, Č., Causes and Effects of the Regulation of Rječina Watercourse, Proceedings of 5th International conference on industrial heritage thematically related to Rijeka and the industrial building heritage - architecture and civil engineering heritage, Palinić, N., Rotim Malvić, J., Đekić, V. (eds.), Rijeka, Pro Torpedo, 2014, pp. 771-797
42. Žic, E., Yamashiki, Y., Kurokawa, S., Fujiki, S., Ožanić, N., Bičanić, 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
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44. Ožanić, N., Sušanji, 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. Ožanić, N., Arbanas, Ž., Mihalić, S., Marui, H., Dragičević, N. (eds.), Rijeka, University of Rijeka, 2012, pp. 86-90
45. Rubinić, J., Žic, E., Travaš, V., Sea level influence on high water occurrence in coastal urban areas – Umag case study. Proceedings of the Ninth International Conference on Urban Drainage Modelling, Prodanović, D., Plavšić, J. (eds.), Beograd, Faculty of Civil Engineering Beograd, 2012, pp. 215-216
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47. Žic, E., Bičanić, N., Kozlarić, T., Ožanić, N., Ružić, I., Application of the Solfec program for the Numerical Modeling of suspended sediment propagation in small torrents. 2nd Project Workshop, Monitoring and Analyses for disaster mitigation of landslides, Debris flow and floods, Book of

	Proceedings. Ožanić, N., Arbanas, Ž., Mihalić, S., Marui, H., Dragičević, N. (eds.), Rijeka, University of Rijeka, 2012, pp. 98-101 48. Ružić, I., Sušanj, I., Ožanić, N., Žic, E., <i>Slani potok and Dubračina river spring runoff characteristics, Vinodol valley</i>, Croatian Waters Facing the Challenge of Climate Change, Biondić, D., Holjević, D., Tropan, Lj., (eds.), Zagreb, Croatian Waters, 2011, pp. 226-237 49. Žic, E., Marović, I., Ožanić, N., Sušanj, I., <i>The throughput of the drainage-retaining channel Botonega in Istria, Croatia</i>. People, Buildings and Environment 2010, Hanák, T., Aigel, P., Dyntarová, K. (eds.), Brno, Akademické nakladatelství CERM, 2010, pp. 455-461 50. Žic, E., Ožanić, N., Vranješ, M., <i>Function of the drainage-retaining Botonega channel in the integrated management of the Botonega accumulation</i>, Balwois 2010, Morell, M. (ed.), Ohrid, Faculty of Civil Engineering „Sts. Cyril and Methodius“, University in Skopje, 2010, pp. 234-234 51. 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Žic, E., Vranješ, M., Ožanić, N., <i>Methods of Roughness Coefficient Determination in Natural Riverbeds</i>, WMHE 2009, Eleventh International Symposium on Water Management and Hydraulic Engineering, Volume II, Popovska, C., Jovanovski, M. (eds.), Skopje, Faculty of Civil Engineering, Ss. Cyril and Methodius University, 2009, pp. 851-862 55. Ožanić, N., Arbanas, Ž., Mihalić, S., Sušanj, I., Žic, E., Ružić, I., Dragičević, N., <i>Croatian-Japanese project on floods and landslides: research activities and application of results</i>, Flood protection in Croatia - Roundtable, Biondić, D., Holjević, D. (eds.), Vukovar, Croatian Waters, 2012, pp. 171-188 56. Ožanić, N., Ružić, I., Sušanj, I., Žic, E., <i>Planned Hydrotechnical Research in Rijeka Area in Croatian-Japanese Project</i>. 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. 57. Ožanić, N., Karleuša, B., Orbanic, J., Žufić, E., Žic, E., <i>High Water Waves Hydrograms – The Example of Hydrological Analysis for the Križ Accumulation</i>, Proceedings of 3rd Croatian Conference on Waters Croatian waters in the 21st century, Gereš, D. (ed.), Osijek, Croatian Waters, 2003, pp. 91-99 58. Ožanić, N., Sušanj, I., Žic, E., Krvavica, N., Ružić, I., Dragičević, N., Volf, G., Karleuša, B., <i>Disaster Mitigation of Floods and Debris Flow at Rijeka Region through Croatian-Japanese Collaboration</i>, 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 59. Volf, G., Žic, E., Ožanić, N., <i>Relationship between atmospheric conditions and groundwater level on Grohovo landslide</i>, 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 60. Yamashiki, Y., Kurokawa, S., Žic, E., Takahashi, T., Rozainy, M.R., Sušanj, I., Fujiki, S., <i>Development of Hydro-Debris 2D and 3D applicable for stony debris flow. Landslide and flood hazard assessment</i>, Arbanas, Mihalić, S., Arbanas, Ž. (eds.), Zagreb, City of Zagreb, Emergency Management Office, 2013. 61. Žic, E., Cuomo, S., Ožanić, N., Bičanić, N., <i>Application of SPH method to create numerical models of Debris flow propagation</i>, 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. 62. Žic, E., Yamashiki, Y., Kurokawa, S., Fujiki, S., Ožanić, N., <i>Physical modelling of debris flow movement - laboratory research</i>, 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. Travaš, V., Gal, E., Lučin, I., Žic, E. *Digital twin for a real-time leakage detection and localization in pressurized piping systems*, Journal of Hydroinformatics, jh2025304, in the publication phase (paper accepted)
2. Kevorkijan, L., Žic, E., Lešnik, L., Biluš, I., *Settling of Mesoplastics in an Open-Channel Flow*, Energies (Basel), 15 (2022), 23; 8786, 14. doi: 10.3390/en15238786
3. Volf, G., Sušanjan Čule, I., Žic, E., Zorko, S., *Water Quality Index Prediction for Improvement of Treatment Processes on Drinking Water Treatment Plant*, Sustainability, 14 (2022), 18; 11481, 16. doi: 10.3390/su141811481
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10. 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
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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) 2. Hydrology of sensitive water resources in karst (project leader Professor Nevenka Ožanić) 3. Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia (project leader Professor Nevenka Ožanić) 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 PhD theses	/
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Examination of PhD theses	2
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