



TOMISLAV BOLANČA

- Date of birth: 19 May 1974
- Place of birth: Zagreb

FACULTY OF CHEMICAL ENGINEERING AND TECHNOLOGY, UNIVERSITY OF ZAGREB

- Employed from 1998 to date
- In 2018, elected to the scientific-teaching position with the title of full professor in a permanent position (natural sciences, field of Chemistry)

FUNDAMENTAL EDUCATION

- 2003 Doctor of Science, Natural Sciences, Chemistry, Faculty of Chemical Engineering and Technology, University of Zagreb
- 2000 Master of Science, Natural Sciences, Chemistry, Faculty of Chemical Engineering and Technology, University of Zagreb
- 1998 Degree in chemistry, Faculty of Science, University of Zagreb

Prof.

TOMISLAV BOLANČA

Vice-rector for Business and Digitalization

Tomislav Bolanča was born in 1974 in Zagreb. In 1998, he graduated in chemistry at the Faculty of Science and Mathematics of the University of Zagreb. In 2000, he obtained his master's degree, and in 2003, his doctorate at the Faculty of Chemical Engineering and Technology of the University of Zagreb in natural sciences in the field of chemistry. Since 1998, he has been employed at the Faculty of Chemical Engineering and Technology of the University of Zagreb, now as a full professor and head of the Faculty's Department of Analytical Chemistry.

From 2017 to 2021, he was dean, and from 2013 to 2015, vice dean in charge of business management. From 2011 to 2013 and from 2021 to the present, he has been the head of the Department of Analytical Chemistry of the Faculty of Chemical Engineering and Technology. He has been a member of the Board of Directors of the "Josip Juraj Strossmayer" Water Institute since 2022, the president of the Supervisory Board of the Association of Croatian Innovators since 2020, and vice president of the Croatian Society of Chemical Engineers from 2016 to 2020, and currently the president since 2020. From 2015 to 2022, he was President of the Management Board of the spin-off company Comprehensive Water Technology d.o.o. Since 2012, he has been a permanent member of the Board of Directors of the Central European Group for Separation Sciences.

At the proposal of the University of Zagreb, as of 2022, he is a member of the working group for the digitisation of higher education and quality assurance of the prepa-

ration and implementation of the “e-University” project. Since 2021, he has been the president of the Budget Committee and a member of the Council of the Natural Sciences Area of the University of Zagreb. From 2021, at the proposal of the Rector’s College of the Republic of Croatia, he has been the deputy representative for the preparation of programme documents of Green Croatia for the financial period of the European Union from 2021 to 2027. He is a member of the Steering Committee of the Scientific and Technological Forecasting Project. Since 2019, he has been a member of the Committee for Science and International Cooperation and the Committee for Innovation and Technology Transfer of the University of Zagreb. From 2017 to 2021, he was a member of the Senate and the Technical Council of the University of Zagreb. Since 2021, he has been a member of the Natural Council of the University of Zagreb.

He has been teaching post-graduate doctoral studies in Chemical Engineering and Applied Chemistry at the Faculty of Chemical Engineering and Technology at the University of Zagreb; post-graduate interdisciplinary specialist studies at the University of Zagreb in Ecoengineering and Environmental Management – Policy and Sustainability; graduate study courses in English in Chemical and Environmental Technology at the Universities of Zagreb and Split; undergraduate and graduate studies in Ecoengineering, Applied Chemistry, Chemistry, and Materials Chemistry and Engineering at the Faculty of Chemical Engineering and Technology, University of Zagreb; and undergraduate studies in Food Technology and graduate studies in Packaging, Recycling, and Environmental Protection at the University North. Since 2018, he has been a member of the expert working group of the international project financed by the EU’s European Social Fund (ESF) Study programme in English in Chemical and Environmental Technology.

According to the Scopus database, he has published 75 scientific papers ranked in the following fields: chemistry, environmental science, biochemistry and molecular biology, chemical engineering, engineering, pharmacy, toxicology, physics, medicine, agronomy, materials science, mathematics, energy, and computer science. He has collaborated on international scientific projects financed by the European Structural and Investment Funds (ESIF) Advanced Crystallization Process Control since 2020 and Water Purification and Energy Conversion using Novel Composite Materials and Solar Irradiation since 2019. Since 2020, on behalf of the Faculty of Chemical Engineering and Technology and the Republic of Croatia, he has been the manager of the DPT Interreg Danube Hazard m3c project. From 2019 to 2022, he managed the HORIZON 2020, New Materials, and Inventive Water Treatment Technologies, harnessing resources effectively through an innovation project on behalf of the partner Comprehensive Water Technology d.o.o. From 2012 to 2019, he led the CEEPUS project Determination of xenobiotics by using separation and hyphenated techniques for the environment, food, and human purposes. From 2008 to 2011, he collaborated on the EUREKA project, Natural Zeolites in Water Quality Systems. He has headed the Croatian Science Foundation (HRZZ) research project, Advanced water treatment technologies for the removal of microplastics from 2019. From 2015 to 2019, he led the HRZZ research project, Modelling the environmental aspects of advanced water treatment for the decomposition of emerging pollutants. He led the PoC HAMAG BICRO project, Degradation of hemicellulose through the production of struvite from digestate to increase the economic and technical

efficiency of the biogas plant on behalf of the Faculty of Chemical Engineering and Technology from 2016 to 2017. In 2015, he led the zProject Ion exchange processes in the industrial water quality system. As an associate member, he participated in the implementation of two further zProjects. From 2003 to 2005, he collaborated on a bilateral project with Slovenia entitled, Use of ion chromatography to monitor the effect of leachate and wastewater purification using activated zeolites. In 2014, he received the international scientific award, Medal and Award for Achievements in the Field of Chromatography and Related Separation Techniques, from the international scientific society, Central European Group for Separation Sciences. He received scientific training in 2003 at Dionex corp., in Sunnyvale, USA, and Idstein, Germany. In 2000 and 2002, he received scientific training at the National Institute of Chemistry in Slovenia.

He has and continues to conduct activities related to technology transfer to the economy by participating in the implementation of more than 40 technological projects and creating pilot plants in the domain of water purification. In 2015, as the author of the business plan, he participated in founding a spin-off company, Comprehensive Water Technology d.o.o, in the field of environmental protection. Since 2020, he has been a member of the expert group of the international professional project financed from the ESF fund CeSaR at the Faculty of Chemical Engineering and Technology. He won one gold medal and two silver medals and plaques at international innovation fairs. In 2009, he became an accredited lead auditor for ISO 14001 Environmental Management Systems. From 2013 to 2017, he was a member of the Main Committee for Natural Sciences for the field of chemistry at the Agency for Science and Higher Education. From 2017 to present, he has been a member of the Committee for Chemistry of the Croatian Academy of Sciences and Arts.

WORK EXPERIENCE IN MANAGEMENT

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| 2022 – | Member of the Board of Directors of the Water Institute, “Josip Juraj Strossmayer” |
| 2021 – | Head of the Department of Analytical Chemistry, Faculty of Chemical Engineering and Technology, University of Zagreb |
| 2020 – | Chairman of the Supervisory Board of the Association of Croatian Innovators |
| 2020 – | President of the Croatian Society of Chemical Engineers |
| 2017 – 2021 | Dean of the Faculty of Chemical Engineering and Technology, University of Zagreb |
| 2016 – 2020 | Vice president of the Croatian Society of Chemical Engineers |
| 2015 – 2022 | President of the Management Board of the affiliated company Comprehensive Water Technology d.o.o. |
| 2013 – 2017 | Vice dean in charge of operations at the Faculty of Chemical Engineering and Technology, University of Zagreb |
| 2012 – | Permanent member of the Board of Directors of the Central European Group for Separation Sciences |
| 2011 – 2013 | Head of the Department of Analytical Chemistry, Faculty of Chemical Engineering and Technology, University of Zagreb |

WORK EXPERIENCE RELATED TO THE UNIVERSITY

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| 2022 – | Member of the working group for digitalisation of higher education and quality assurance of the preparation and implementation of the “e-University” project at the proposal of the University of Zagreb |
| 2021 – | President of the Budget Committee of the University of Zagreb |
| 2021 – | Member of the Natural History Council of the University of Zagreb |
| 2021 – | Deputy representative of the Rector’s College of the Republic of Croatia for the preparation of Green Croatia programme documents of the European Union for the financial period from 2021 – 2027 |
| 2021 – | Representative of the Rector’s College of the Republic of Croatia in the Steering Committee of the Scientific and Technological Forecasting Project |
| 2019 – | Member of the Committee for Science and International Cooperation of the University of Zagreb. |
| 2019 – | Member of the Committee for Innovation and Technology Transfer of the University of Zagreb |
| 2017 – 2021 | Member of the Council of the Technical Area of the University of Zagreb |
| 2017 – 2021 | Members of the Senate of the University of Zagreb |