PERSONAL INFORMATION

Elvis Ahmetović, Full Professor in Chemical Engineering

University of Tuzla, Faculty of Technology, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina
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Google Scholar ID: http://scholar.google.com/citations?user=3GLDIUUAAAAJ&hl=en
Publons: https://publons.com/researcher/2665609/elvis-ahmetovic/
SCOPUS ID: http://www.scopus.com/authid/detail.url?authorId=36350581300
ResearchGate: https://www.researchgate.net/profile/Elvis_Ahmetovic
ORCID ID: https://orcid.org/0000-0003-1837-7183

Sex: Male | Date of birth: 05/07/1973 | Nationality: Bosnian

POSITION

Full Professor in Chemical Engineering at the University of Tuzla, Faculty of Technology, Tuzla, Bosnia and Herzegovina, from March 24, 2017.

Corresponding member of the Academy of Sciences and Arts of Bosnia and Herzegovina in the Department of Technical Sciences, from December 20, 2022.

OCCUPATIONAL FIELDS

Chemical Engineering, Process Systems Engineering. Analysis, Synthesis and Design of Chemical Processes. Process Integration, Mathematical Programming and Process Optimization, Green Engineering and Sustainable Development, Rational use of Water and Energy in Industry

WORK EXPERIENCE

From 24/03/2017 — Full Professor in Chemical Engineering

University of Tuzla, Faculty of Technology, Department of Chemical Engineering, Urfeta Vejzagića 8, 75000 Tuzla, Bosnia and Herzegovina

- Teaching and Research in Chemical Engineering. Teaching Courses: Unit Operations, Chemical Process Design, Process Integration, Rational Use of Energy/Energy Efficiency in Chemical Processes, Synthesis and Optimisation of Chemical Processes

Business or sector: Higher Education

From 28/05/2014 to 23/03/2017 — Associate Professor in Chemical Engineering

University of Maribor, Faculty of Chemistry and Chemical Engineering, Smetanova 17, 2000 Maribor, Slovenia

- Teaching and Research in Chemical Engineering (Process Systems Engineering and Sustainable Development). Visiting Professor in framework of project "Internationalization – A Pillar of Development of the University of Maribor" (co-financed by European Social Fund and Ministry of Education, Science and Sport of the Republic of Slovenia) (01.10.2014-30.06.2015).

Business or sector: Higher Education

From 23/03/2011 to 23/03/2017 — Associate Professor in Process Engineering

University of Tuzla, Faculty of Technology, Department of Process Engineering, Univerzitetska 8, 75000 Tuzla, Bosnia and Herzegovina

- Teaching and Research in Process Engineering. Teaching Courses: Unit Operations, Chemical Process Design, Process Integration, Rational Use of Energy.

Business or sector: Higher Education

From 23/03/2006 to 23/03/2011 — Assistant Professor in Process Engineering

University of Tuzla, Faculty of Technology, Department of Process Engineering, Univerzitetska 8, 75000 Tuzla, Bosnia and Herzegovina

- Teaching and Research in Process Engineering. Teaching Courses: Unit Operations I and II, Thermal Processes in Process Engineering, Process Design I, Hydro-mechanical operations, Heat and Mass Transfer Operations, Rational Use of Energy, Chemical Process Design, Process Integration.

Business or sector: Higher Education

From 03/11/2007 to 14/09/2008
From 14/09 to 23/11/2009

Vice Dean for Education

University of Tuzla, Faculty of Technology, Univerzitetska 8, 75000 Tuzla, Bosnia and Herzegovina.

- Faculty management activities, work with the chairs of departments and teaching staff and students to improve the quality of education and teaching process at the Faculty of Technology.

Business or sector: Higher Education

From 02/04/2004 to 23/03/2006

Senior Teaching Assistant in Chemical Engineering

University of Tuzla, Faculty of Technology, Department of Chemical and Food Engineering, Univerzitetska 8, 75000 Tuzla, Bosnia and Herzegovina.

- Teaching and Research in Chemical Engineering. Teaching Courses: Unit Operations, Analysis and Simulation of Processes, Rational Use of Energy.

Business or sector: Higher Education

From 12/03/1999 to 02/04/2004

Teaching Assistant in Chemical Engineering

University of Tuzla, Faculty of Technology, Department of Chemical Engineering, Univerzitetska 8, 75000 Tuzla, Bosnia and Herzegovina.

- Teaching and Research in Chemical Engineering. Teaching Courses: Chemical Engineering Calculations, Unit Operations, Thermodynamics and Thermotechnics.

Business or sector: Higher Education

EDUCATION AND TRAINING

University Education

02/09/2005

Ph.D in Process Engineering

University of Tuzla, Faculty of Technology, Department of Process Engineering, Univerzitetska 8, 75000 Tuzla, Bosnia and Herzegovina.

- Thesis: Process simulation for concentration and crystallization of food systems by water evaporation. Department of Process Engineering, Faculty of Technology, University of Tuzla.

25/06/2002

M.Sc. in Chemical Engineering

University of Tuzla, Faculty of Technology, Department of Chemical and Food Engineering , Univerzitetska 8, 75000 Tuzla, Bosnia and Herzegovina. A part of research was done at the Faculty of Chemistry and Chemical Engineering, University of Maribor, Slovenia.

- Thesis: Heat integration and retrofit of heat exchangers network using mathematical programming

14/07/1998

B.Sc. in Chemical Engineering

University of Tuzla, Faculty of Technology, Department of Chemical and Food Engineering, Univerzitetska 8, 75000 Tuzla, Bosnia and Herzegovina

- Thesis: Mathematical model of reactor balance equations in maleic-anhydride production

Mobility and Training

From 22/09/ to 23/09/2022

COST Action: CA20138 - Network on Water-Energy-Food Nexus for a Low-Carbon Economy in Europe and Beyond (NEXUSNET)

Innovathens, Pireos 100, Athens, Greece

- Participation and discussion in Management Committee and Working Group meetings

Mobility within the Erasmus+ K2 project entitled “INTERnationalization at Home: Embedding Approaches and Structures to Foster Internationalization at Western Balkans/INTERBA”

From 13/07 to 15/07/2022 University of Cagliari, Faculty of Engineering and Architecture, Via Università, 40, 09124 Cagliari CA, Italy

From 18/07 to 20/07/2022 University of Palermo, Piazza Marina, 61, 90133 Palermo PA, Italy
BB Hotel Quattro Canti Palermo, Via Vittorio Emanuele, 291, 90133 Palermo

From 11/04 to 14/04/2022 University of Tirana, Faculty of Economy, , Rruga “ArbenBroci” Tirana 1000, Albanija

▪ Work meetings of management team of the Erasmus+ K2 project INTERBA and realization of project activities

▪ Delivered the first pilot training in which the SCATE (S-Scope, C-Content, A-Activity, T-Think, E-Extra) pedagogical model developed by Middlesex University (United Kingdom) is applied to the preparation of the course entitled "Combined Water and Energy Integration in the Process Industries". The powerpoint presentation of the delivered pilot course for training is available here.

From 28/09 to 01/10/2021
From 09/09 to 11/09/2021

Mobility within bilateral project of scientific and technological cooperation between Bosnia and Herzegovina and Republic of Slovenia

University of Maribor, Faculty of Chemistry and Chemical Engineering, Smetanova 17, 20000 Maribor, Slovenia

▪ Work meetings within bilateral project entitled "Synthesis of Evaporation Systems using Mathematical programming" and realisation of project activities

From 12/07 to 16/07/2021

Erasmus+ staff mobility for teaching

Pamukkale University, Faculty of Engineering, Department of Chemical Engineering, Çamlaraltı Mahallesi, Üniversite Cd. No:11, 20160 Pamukkale/Denizli, Turkey

▪ Teaching activities (lectures) on the topic Energy Efficiency of Chemical Processes; Attending work meetings; Presentation of the University of Tuzla

From 17/02 to 18/02/2020

COST Action: CA18224 - Green Chemical Engineering Network towards upscaling sustainable processes

Santiago de Compostela, Spain

▪ Participation and active discussion in WG meetings. Presentation of research work entitled: Synthesis, Optimisation and Integration of Sustainable Process Systems

From 24/10 to 25/10/2019

Erasmus+ Contact Seminar with the Western Balkans

Tirana International Hotel, Albania

▪ Participation at Erasmus+ contact seminar, trainings and workshops, and presentation of the University of Tuzla.

From 25/09 to 28/09/2019

Mobility within bilateral project between Slovenia and Bosna and Herzegovina

University of Maribor, Faculty of Chemistry and Chemical Engineering, Smetanova 17, SI-2000 Maribor, Slovenia.

▪ Mobility within the bilateral research project entitled "Synthesis of Evaporation Systems using Mathematical programming". Attending work meetings and dissemination of research results. Host research contact: Prof. Zdravko Kravanja

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14/010/2019

COST Action: CA18224 - Green Chemical Engineering Network towards upscaling sustainable processes

COST Association, 149 Avenue Louise, 15th Floor, Brussels, Belgium

▪ Participation and active discussion at the first Management Committee meeting

From 15/07 to 14/08/2019

Mobility within the DAAD Scholarship Program, Research Stays for University Academics and Scientists

University of Bremen, Process Systems Engineering, Leobener Str. 6, 28359 Bremen, Germany

▪ Research related to Process systems engineering, energy efficiency and sustainable development. Host contact: Prof. dr. ir. Edwin Zondervan, Chair Laboratory of Process Systems Engineering.

From 01/07 to 05/07/2019

Mobility within the Erasmus+ programme

University of Granada, Complejo Administrativo Triunfo, Avda. Del Hospicio s/n, 18071 Granada.

▪ Participation at the 15th Staff Training Week organized by the University of Granada within the framework of the Erasmus+ programme and exchange of mutual experience and best practice procedures. Host contact: Mercedes Lopez Roldan, Director of the International Office

From 23/06 to 29/06/2019

Teaching mobility within the CEEPUS project

University Sts. Cyril and Methodius, Faculty of Technology and Metalurgy, Skopje, Chemical Engineering and Technology, Ruger Boskovic 16, 1000 Skopje

▪ Realisation of the activities within the CEEPUS project "CIII-SI-0708-06-1819 - Chemistry and Chemical Engineering"; Guest lecture entitled Synthesis, Optimisation and Heat Integration of Evaporation Systems; Work meetings with host local CEEPUS coordinator and Vice Dean for science and international collaboration. Host CEEPUS contact: Prof. dr. Vesna Rafajlovska

From 17/06 to 18/06/2019

Training within Train+ (Training and Research for Academic Newcomers) project

University of Sarajevo, Center for Interdisciplinary Studies, Zmaja od Bosne 8, 71000 Sarajevo.

▪ Participation in training within Train+ (Training and Research for Academic Newcomers) project. Module: Research Methodology, Scientific Writing and Result Presentation

From 29/05 to 31/05/2019

Teaching mobility and short excursion within the CEEPUS project

University of Zagreb, Faculty of Chemical Engineering and Technology, Marulićev trg 19, Zagreb, Croatia.

▪ Realisation of the activities within the CEEPUS project "CIII-SI-0708-06-1819 - Chemistry and Chemical Engineering". Guest lecture related to Synthesis of evaporation systems using mathematical programming; Organizing short mobility excursion for ten undergraduate students and supervision of students' seminar works presented at host institution. Host CEEPUS contact: Prof. dr. Zvjezdana Findrik Blažević

From 23/04 to 25/04/2019

Work meetings

Scientific & Technological Cooperation between Austria and Bosnia Herzegovina; Project: Modeling and Simulation of Biorefinery Concepts in the Context of Water and Heat Integration

Graz University of Technology, Institute of Process and Particle Engineering, Inffeldgasse 13/III, 8010 Graz, Austria

▪ Overview/Review of previous research projects; Attending work meetings and participation in discussions. Host contact: Prof. dr. Stefan Radl

From 01/04 to 05/04/2019

Erasmus+ staff mobility for teaching and participation at the 9th International Week Programme:

Pamukkale University, Faculty of Engineering, Department of Chemical Engineering, Çamlaraltı Mahallesi, Üniversite Cd. No:11, 20160 Pamukkale/Denizli, Turkey

▪ Teaching activities (lectures) on the topic Simulation, optimisation and heat integration of single and multiple-effect evaporation plants; Attending the 9th International week programme and participation in discussions; Presentation of the University of Tuzla

From 04/03 to 08/03/2019

Erasmus+ staff mobility for training and participation at the 2nd Erasmus+ International Credit Mobility Week: "Internationalizing Higher Education Institutions beyond the European borders"

University of Valencia, Av. de Blasco Ibáñez, 13, 46010 València, Spain

▪ Attending the 2nd Erasmus+ International Credit Mobility Week; Training activities related to Internationalizing Higher Education Institutions beyond the European borders; Presentation of the University of Tuzla and participation in discussions

From 15/011 to 16/11/2018

HEInnovate: Train the trainers

COOP Hotel, Sofia, Bulgaria

▪ Training activities related to a framework for entrepreneurial and innovative higher education institutions; Participation in workshops and discussions

From 07/05 to 11/05/2018

Erasmus+ staff mobility for teaching and participation at the 8th International week

Pamukkale University, Faculty of Engineering, Department of Chemical Engineering, Çamlaraltı Mahallesi, Üniversite Cd. No:11, 20160 Pamukkale/Denizli, Turkey

▪ Teaching activities (lectures) on the topic Process optimisation: Introduction and applications in chemical engineering; Attending the 8th International week and participation in discussions

From 26/02 to 02/03/2018

Mobility within the project "Involvement of visiting foreign experts and university teachers in the pedagogical process as a pillar of quality development process of internationalisation of the University of Maribor" (the project is co-funded by the European Social Fund and the Ministry of Education, Science and Sport of the Republic of Slovenia)

University of Maribor, Faculty of Chemistry and Chemical Engineering, Smetanova 17, SI-2000 Maribor, Slovenia.

▪ Teaching activities (lectures/exercises) on the topic Process optimisation, modelling in GAMS, problem solving within a field of study Chemical Engineering, subject Process Optimisation.

From 07/11 to 08/11/2017
From 14/06 to 16/06/2017

Mobility within the SCOPES (Scientific Co-operation between Eastern Europe and Switzerland) project

University of Maribor, Faculty of Chemistry and Chemical Engineering, Smetanova 17, SI-2000 Maribor, Slovenia.

- Mobility within the SCOPES research project entitled “Computer Aided Process Engineering applied to energy, water, and waste reduction during process design and operation”. Attending work meetings and dissemination of research results. Host research contact: Prof. Zdravko Kravanja.

From 17/07 to 23/07/2016

Mobility within the SCOPES (Scientific Co-operation between Eastern Europe and Switzerland) project

EPFL/Industrial Processes & Energy Systems Engineering Group (IPESE), Valais Wallis, 1951 Sion, Switzerland.

- Mobility within the SCOPES research project entitled “Computer Aided Process Engineering applied to energy, water, and waste reduction during process design and operation”. Attending work meetings and dissemination of research results. Host research contact: Prof. François Maréchal.

From 17/06 to 30/06/2016

Erasmus+ staff mobility for training/teaching

Lappeenranta University of Technology, School of Business and Management, Lappeenranta, Finland

- Study and attending work meetings. Host research contact: Prof. Andrzej Kraslawski.

From 01/10/2014 to 30/06/2015

Mobility within the project "Internationalization – A Pillar of Development of the University of Maribor"

University of Maribor, Faculty of Chemistry and Chemical Engineering, Smetanova 17, 2000 Maribor, Slovenia

- Teaching and Research in Chemical Engineering (Process Systems Engineering and Sustainable Development). Visiting Professor in framework of project "Internationalization – A Pillar of Development of the University of Maribor" (co-financed by European Social Fund and Ministry of Education, Science and Sport of the Republic of Slovenia). Host contact: Prof. dr. Zdravko Kravanja

From 03/02 to 05/02/2014

Mobility within the TEMPUS project

University of Banja Luka, Faculty of Economy, Bosnia and Herzegovina

- Participation at the workshop "HEI staff trained on internal QA in PhD" organised within the TEMPUS project "Embedding Quality Assurance in Doctoral Education (EQUADE).

From 23/06 to 30/06/2013

Teaching mobility within the CEEPUS project

University of Maribor, Faculty of Chemistry and Chemical Engineering, Smetanova 17, SI-2000 Maribor, Slovenia.

- Realisation of the activities within the CEEPUS project entitled “Chemistry and Chemical Engineering”. Guest lecture related to Synthesis of heat-integrated process networks and applications of developed optimization models to problems of different complexity. Host contact: Prof. dr. Zdravko Kravanja

From 01/09 to 30/09/2012

EM2-STEM Mobility Program

Lappeenranta University of Technology, P.O.Box 20, 53851 Lappeenranta, Finland.

- The staff member mobility project related to the chemical engineering curriculum study, case-base reasoning and water and energy management in process plants. Host research contact: Prof. Andrzej Kraslawski.

From 03/10/2011 to 03/08/2012

JoinEU SEE Mobility Program - Postdoctoral Research in Process Systems Engineering

University of Maribor, Faculty of Chemistry and Chemical Engineering, Laboratory for Process Systems Engineering and Sustainable Development, Smetanova 17, 2000 Maribor, Slovenia.

- Postdoctoral research in Process Systems Engineering within the JoinEU SEE Program (Scholarship scheme for academic exchange between EU and Western Balkan countries). Research project: Sustainable water and energy management in process industry and Synthesis of heat-integrated process water networks. Advisor: Prof. dr. Zdravko Kravanja.

From 18/07 to 18/08/2011

DAAD Program, Postdoctoral Research in Process Systems Engineering

Institute for Applied Material Flow Management (IfaS), Environmental Campus Birkenfeld, PO Box 1380, 55761 Birkenfeld, Germany

- Postdoctoral research in Process Systems Engineering within the DAAD Program (Research Stays for University Academics and Scientists). Research project: Sustainable water and energy management in the process industries. Host research contact: Prof. dr. Peter Heck.

From 12/09 to 18/09/2010

Mobility within TEMPUS project

Katholieke Hogeschool Sint-Lieven, Gent, Belgium

- Study visit and training within the TEMPUS project: Creation of university-enterprise cooperation networks for education on sustainable technologies. Project ID: 158989-JPHES.

From 15/09 to 14/09/2009

Fulbright Visiting Scholar - Postdoctoral Research in Process Systems Engineering

Carnegie Mellon University, Center for Advanced Process Decision-making, Department of Chemical Engineering, 5000 Forbes Avenue, Pittsburgh, PA 15213-3890 USA.

- Postdoctoral research in Process Systems Engineering within the Fulbright Visiting Scholar Program. Research Projects: Energy and Water Optimization of Bioprocess Systems; General Superstructure and Global Optimization for the Design of Integrated Process Water Networks. Advisor: Prof. Ignacio E. Grossmann, Rudolph R. and Florence Dean University Professor.

From 19/04 to 21/04/2009

2009 Fulbright Visiting Scholar Conference

The Ritz-Carlton, 1150 22nd St NW, Washington, DC

- Attending plenary panels and sessions related to Access and Equity in Higher Education; Participations in discussions.

From 01/12 to 20/12/2003
01/12 to 24/12/2002

Mobility within bilateral project between Slovenia and Bosna and Herzegovina

University of Maribor, Faculty of Chemistry and Chemical Engineering, Smetanova 17, 2000 Maribor, Slovenia.

- Postgraduate research and realization of the research activities within the bilateral project between Slovenia and Bosnia and Herzegovina. Project: Computer Aided Process Optimization. Advisor: Prof. Zdravko Kravanja.

From 11/06 to 11/07/2001
02/10 to 11/11/2000

Postgraduate research in Chemical Engineering

University of Maribor, Faculty of Chemistry and Chemical Engineering, Smetanova 17, 2000 Maribor, Slovenia.

- Postgraduate research and work on master thesis: Heat integration and retrofit of heat exchanger network using mathematical programming. Advisor: Prof. Zdravko Kravanja.

From 07/05 to 18/05/2001

Postgraduate training in Chemical Engineering

University Rovira and Virgili, Tarragona, Department of Chemical Engineering, Spain

- Postgraduate training within the international collaboration between Spain and Bosnia and Herzegovina.

PERSONAL SKILLS

Mother tongue(s): Bosnian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
	Upper Intermediate Level of English, B2				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

Excellent written and oral communication skills gained through:

- Teaching and research experience and dissemination of knowledge at university
- Presentation of research results at international conferences and publication in high impact journals
- Work in international research teams

Organisational/managerial skills

Excellent organisational and management skills.

- Vice-dean for education at the Faculty of Technology, University of Tuzla
- Team leader and coordinator of several research projects (Bilateral projects between Bosnia and Herzegovina and Slovenia and Bosnia and Herzegovina and Austria)
- Team leader of Tuzla research group in the international project SCOPES (Scientific Co-operation between Eastern Europe and Switzerland), 2014-2017
- Team leader and coordinator of several domestic research projects realized in Bosnia and Herzegovina
- Coordinator of CEEPUS project at the University of Tuzla, 2012- .
- Coordinator of Erasmus+ project, "INTERnationalization at Home: Embedding Approaches and Structures to Foster Internationalization at Western BAlkans/INTERBA", at the University of Tuzla 2019-2023.
- Advisor of bachelor, master and doctoral theses
- President of the Cantonal Council for Science and Technology, Tuzla, 2022-

Job-related skills

Excellent team work skills. Excellent ability to adapt to multicultural environments, and establish and maintain good working relations with people of different national and cultural backgrounds. These skills were gained through my study visits in several mobility programmes (Fulbright Visiting Scholar Program, JoinEU-SEE Program, EM2-STEM Program, DAAD Program, CEEPUS and Erasmus+ Program) and work in several international (Erasmus+, SCOPES, TEMPUS) and domestic research projects.

Computer skills

Excellent computer skills related to computer-aided tools for simulation, modelling and optimization of chemical processes. These skills were gained through training, work and research in the field of process systems engineering. Excellent skills related to command of Microsoft Office tools (Word, Excel, PowerPoint, etc.).

Driving licence

Driving licence categories:

- B, C, CE

ADDITIONAL INFORMATION

Papers referenced in databases
Web of Science
Scopus
Science Direct

1. Ahmetović, E., Ibrić, N., Nemet, A., Kravanja, Z., Grossmann, I. E. (2022). Recent Progress and Future Directions in the Synthesis of Heat-Integrated Water Networks. Chemical Engineering Transactions, 94, 625-630.
2. Nemet, A., Ibrić, N., Bogataj, M., Ahmetović, E., Kravanja, Z. (2022). Simultaneous Synthesis of Heat-Integrated Water Network with the Two-Step Approach. Chemical Engineering Transactions, 94, 1351-1356.
3. Ibrić, N., Ahmetović, E., Nemet, A., Kravanja, Z., Grossmann, I. E. (2022). Synthesis of Heat-Integrated Water Networks Using a Modified Heat Exchanger Network Superstructure. Energies 15(9), 3158.
4. Ibrić, N., Ahmetović, E., Kravanja, Z., Grossmann, I. E. (2021). Simultaneous optimisation of large-scale problems of heat-integrated water networks. Energy, 235, 121354.
5. Ahmetović, E., Kravanja, Z., Ibrić, N., Grossmann, I. E., Savulescu, L. E. (2021). State of the art methods for combined water and energy systems optimisation in Kraft pulp mills. Optimization and Engineering, 22 (3), 1831-1852.
6. Ibrić, N., Ahmetović, E., Kravanja, Z. (2021). Simultaneous optimisation of heat and power integration of evaporation-crystallisation systems: A case study of distiller waste from Solvay process. Optimization and Engineering, 22 (3), 1853-1895.
7. Ibrić N., Ahmetović E., Kravanja Z., Grossmann I.E., 2021, Synthesis of Heat-Integrated Water Networks: Case Study with Sensitivity Analysis, Chemical Engineering Transactions, 88, 1147-1152.
8. Mostafa, M., Varela, C., Ahmetović, E., Zondervan, Z. (2020). Efficient Amine-based Carbon Capture in a Power-to-Jet process under varying Renewable Electricity supply. Computer Aided Chemical Engineering, PTS A-C 48, 319-324.
9. Varela, C., Mostafa, M., Ahmetović, E., Zondervan, Z. (2020). Agile operation of renewable methanol synthesis under fluctuating power inputs. Computer Aided Chemical Engineering, PTS A-C 48, 1381-1386.
10. Nemet, A., Walmsley, T. G., Ahmetović, E., Kravanja, Z. (2020). Process synthesis and simultaneous heat and electricity integration to reduce consumption of primary energy sources. Computer Aided Chemical Engineering, PTS A-C 48, 901-906.

11. Ahmetović, E., Ibrić, N., Kravanja, Z., Grossmann, I. E., Maréchal, F., Čuček, L., Kermani, M. (2018). Simultaneous optimisation and heat integration of evaporation systems including mechanical vapour recompression and background process. Energy, 158, 1160-1191.

12. Ibrić, N., Ahmetović, E., Kravanja, Z., Maréchal, F., & Kermani, M. (2017). Simultaneous synthesis of non-isothermal water networks integrated with process streams. Energy, 141, 2587-2612.

13. Ibrić, N., Ahmetović, E., Kravanja, Z., Maréchal, F., & Kermani, M. (2017). Synthesis of single and interplant non-isothermal water networks. Journal of Environmental Management, 203, 1095-1117.

14. Ahmetović, E., Grossmann, I.E., Kravanja, Z., Ibrić, N. (2017). "Water Optimization in Process Industries", 487-512. (Book chapter in book Sustainable Utilization of Natural Resources, Editors: P. Mondal and A.K. Dalai).

15. Ahmetović, E., Suljkanović, M., Kravanja, Z., Maréchal, F., Ibrić, N., Kermani, M., Bogataj, M., & Čuček, L. (2017). Simultaneous optimisation of multiple-effect evaporation systems and heat exchanger network. Chemical Engineering Transactions, 61, 1399-1404.

16. Ibrić, N., Ahmetović, E., & Kravanja, Z. (2016). Mathematical programming synthesis of non-isothermal water networks by using a compact/reduced superstructure and an MINLP model. Clean Technologies and Environmental Policy, 18 (6), 1779-1813.

17. Mujkić, Z., Ibrić, N., Bogataj, M., Kravanja, Z., Ahmetović, E. (2016). Optimisation of heat exchanger networks involving isothermal and non-isothermal mixing by global and local solvers. Computer Aided Chemical Engineering, PT B 38B, 2289-2294.

18. Ahmetović, E., Ibrić, N., Kravanja, Z., Grossmann, I. E. (2015). Water and energy integration: A comprehensive literature review of non-isothermal water network synthesis. Computers & Chemical Engineering, 82, pp. 144-171. The first comprehensive review paper in the synthesis of non-isothermal water networks.

19. Ahmetović, E., Kravanja, Z., Maréchal, F., Ibrić, N., Kermani, M. (2015). Applications of Pinch Analysis and Mathematical Programming Methods for Synthesizing Non-Isothermal Water Networks, AIChE 2015 Annual meeting, November 8-13, 2015, Salt Lake City, UT (U.S). Computing and Systems Technology Division 2015 - Core Programming Area at the 2015 AIChE Annual Meeting 1,135-145.

20. Ahmetović, E., Ibrić, N., Kravanja, Z. (2014). Optimal design for heat-integrated water-using and wastewater treatment networks. Applied Energy, 135, 791-808.

21. Ibrić, N., Ahmetović, E., Kravanja, Z. (2014). Simultaneous optimization of water and energy within integrated water networks. Applied Thermal Engineering, 70 (2), 1097–1122.

22. Ibrić, N., Ahmetović, E., Kravanja, Z. (2014). Two-step mathematical programming synthesis of pinched and threshold heat-integrated water networks. Journal of Cleaner Production, 77, 116-139.

23. Pintarič, N., Kravanja, Z., Ibrić, N., Ahmetović, E., Grossmann, I. E. (2014). Designing Optimal Water Networks for the Appropriate Economic Criteria. Chemical Engineering Transactions, 39, 1021-1026. Keynote Lecture

24. Ibrić, N., Ahmetović, E., Kravanja, Z. (2014). Synthesis of Water, Wastewater Treatment, and Heat-Exchanger Networks. Computer Aided Chemical Engineering, Vol. 33, 2014, 1843–1848.

25. Ahmetović, E., Kravanja, Z. (2014), Simultaneous optimization of heat-integrated water networks involving process-to-process streams for heat integration. Applied Thermal Engineering, 62 (1) 302–317.

26. Suljkanović, M., Jotanović, M., Ahmetović, E., Tadić, G., Ibrić, N. (2013). Formalized methodology for the separation of three component electrolytic systems. Partial separation of the system, Chemical Industry, 67, 4, 569-583.

27. Ahmetović, E., Kravanja, Z. (2013). Simultaneous synthesis of process water and heat exchanger networks. Energy, 57, 236-250.

28. Ibrić N., Ahmetović E., Kravanja Z. (2013), A two-step solution strategy for the synthesis of pinched and threshold heat-integrated process water networks. Chemical Engineering Transactions, 35, 43-48.

29. Ibrić, N., Ahmetović, E., Suljkanović, M. (2012). Optimization model for the design of distributed wastewater treatment networks. Chemical Industry, 66 (2) 263–275.

30. Ahmetović, E., Kravanja, Z. (2012). Solution Strategies for the Synthesis of Heat-Integrated Process Water Networks. Chemical Engineering Transactions, 29, 1015-1020. Keynote Lecture

31. Ahmetović, E., Grossmann, I. E. (2011). Global superstructure optimization for the design of integrated process water networks. The AIChE Journal, 57, 2: 434-457. Top cited AIChE Journal paper from 2011.

32. Martin M., Ahmetović, E., Grossmann, I. E. (2011). Optimization of Water Consumption in Second Generation Bioethanol Plants. Industrial & Engineering Chemistry Research, 50, 3705–3721

33. Ahmetović, E., Martin, M., Grossmann, I. E. (2010). Optimization of energy and water consumption in corn-based ethanol plants. Industrial & Engineering Chemistry Research, 49 (17), 7972–7982.

34. Ahmetović, E., Grossmann, I. E. (2010). Strategies for the global optimization of integrated process water networks. Computer-Aided Chemical Engineering 28, 901-906.

35. Suljkanović, M., Jotanović, M., Ahmetović, E., Ibrić, M. (2010). Multivariant simulator for vacuum cooling processes of three component electrolyte systems. Chemical Industry, 64 (4), 21-33.

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Papers in other journals, proceedings from conferences and papers presented at conferences

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ADVISOR OF THESES

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PROJECTS

2019-2022

Project title: Synthesis of evaporation systems using mathematical programming.

Programme: Scientific and technological collaboration between Bosnia and Herzegovina and the Republic of Slovenia.

Project period: January 01, 2019-December 31, 2022.

Partners: University of Tuzla, Faculty of Technology (Bosnia and Herzegovina) and University of Maribor, Faculty of Chemistry and Chemical Engineering (Slovenia).

Project leaders: Prof. Elvis Ahmetović (Bosnia and Herzegovina) and Prof. Zdravko Kravanja (Slovenia).

2019-2020

Project title: Modeling and Simulation of Biorefinery Concepts in the Context of Water and Heat Integration (MoBi-Water-Heat).

Programme: Scientific and technological collaboration between Bosnia and Herzegovina and Austria.

Project period: January 01, 2019-December 31, 2020.

Partners: University of Tuzla, Faculty of Technology (Bosnia and Herzegovina) and Graz University of Technology, Institute of Process and Particle Engineering (Austria).

Project leaders: Prof. Elvis Ahmetović (Bosnia and Herzegovina) and Prof. Stefan Radl (Austria).

2020

Project title: Energy efficiency of chemical processes and reduction of greenhouse gasses into the environment.

Programme: Internal call for financing/co-financing projects in the field of science of importance for the Federation of Bosnia and Herzegovina in 2019 based on an agreement signed between the Federal Ministry of Education and Science and the University of Tuzla.

Project period: January 01, 2020-December 31, 2020.

Project leader: Prof. Elvis Ahmetović (University of Tuzla, Faculty of Technology).

2014-2017

Project title: Computer Aided Process Engineering applied to energy, water, and waste reduction during process design and operation (CAPE-EWWR).

Programme: Scientific Co-operation between Eastern Europe and Switzerland (SCOPES): Joint Research Projects (JRP)

Project period: October 01, 2014-September 30, 2017.

Partners: École Polytechnique Fédérale de Lausanne (EPFL), Industrial Process and Energy Systems Engineering (Switzerland), University of Tuzla, Faculty of Technology (Bosnia and Herzegovina) and University of Maribor, Faculty of Chemistry and Chemical Engineering (Slovenia).

Project leaders: Prof. François Maréchal (Swirzerland), Prof. Elvis Ahmetović (Bosnia and Herzegovina) and Zdravko Kravanja (Slovenia).

2016

Project title: Simulation and Optimisation of Evaporation/Crystallisation Separation Processes.

Programme: Financing/co-financing scientific-research and research-development projects in the Federation of Bosnia and Herzegovina in 2016 based on a agreement signed between the Federal Ministry of Education and Science and the University of Tuzla.

Project period: January 01, 2017-December 31, 2017.

Project leader: Prof. Elvis Ahmetović (University of Tuzla, Faculty of Technology).

2014-2015 Project title: Synthesis of sustainable water, wastewater and energy networks within the process industries.

Programme: Scientific and technological collaboration between Bosnia and Herzegovina and the Republic of Slovenia.

Project period: January 01, 2014-December 31, 2015.

Partners: University of Tuzla, Faculty of Technology (Bosnia and Herzegovina) and University of Maribor, Faculty of Chemistry and Chemical Engineering (Slovenia).

Project leaders: Prof. Elvis Ahmetović (Bosnia and Herzegovina) and Prof. Zdravko Kravanja (Slovenia).

2011-2012 Project title: Sustainable water and energy management in the process industries.

Programme: JoinEU-SEE II, ERASMUS MUNDUS Action 2.

Project period: October 03, 2011-August 03, 2012.

Type of mobility: Post-doctorate, 10 months.

Host institution: University of Maribor, Faculty of Chemistry and Chemical Engineering (Slovenia).

Home institution: University of Tuzla, Faculty of Technology (Bosnia and Herzegovina).

Host contact and advisor: Prof. Zdravko Kravanja

JoinEU-SEE applicant and project leader: Prof. Elvis Ahmetović.

2010-2011 Project title: Development and Application of an Optimization Model for the Reduction of Water Consumption in Process Industry.

Programme: Scientific and technological collaboration between Bosnia and Herzegovina and the Republic of Slovenia.

Project period: January 01, 2010-December 31, 2011.

Partners: University of Tuzla, Faculty of Technology (Bosnia and Herzegovina) and University of Maribor, Faculty of Chemistry and Chemical Engineering (Slovenia).

Project leaders: Prof. Elvis Ahmetović (Bosnia and Herzegovina) and Prof. Zdravko Kravanja (Slovenia).

2011 Project title: Automated Synthesis and Design of Sustainable Processes.

Programme: Financing/co-financing scientific research projects in the Federation of Bosnia and Herzegovina in 2010 based on a agreement signed between the Federal Ministry of Education and Science and the University of Tuzla.

Project period: January 01, 2011-December 31, 2011.

Project leader: Prof. Elvis Ahmetović (University of Tuzla, Faculty of Technology).

2010 Project title: Efficient use of water and energy in process Industry.

Programme: Support to research projects by the Ministry of Education, Science, Culture and Sport of the Tuzla Canton.

Project period: January 01, 2010-December 31, 2010.

Project leader: Prof. Elvis Ahmetović (University of Tuzla, Faculty of Technology).

2008-2009 Energy and Water Optimization of Bioprocess Systems. Global Optimization for the Design of Integrated Process Water Networks.

Project title: Energy and Water Optimization of Bioprocess Systems.

Programme: Fulbright Visiting Scholar Program

Programme sponsor: U.S. Department of State

Project period: September 15, 2008-September 14, 2019.

Host institution: Carnegie Mellon University, Center for Advanced Process Decision-making, Department of Chemical Engineering, 5000 Forbes Avenue, Pittsburgh, PA 15213-3890, United States.

Host contact and advisor: Prof. Ignacio E. Grossmann.

Applicant and project researcher: Elvis Ahmetović, Assistant professor

2007 Project title: Simulation of Salt Production Plant by Vacuum-Evaporation in Solana d.d. Tuzla.

Project task holder: Institute for Chemical Engineering Tuzla.

Industrial partner: Solana d.d. Tuzla.

Project time: 2007.

Participant and collaborator in project: Dr. Elvis Ahmetović.

2006 Project title: Design of distillation column condensation system.
Project task holder: University of Tuzla, Faculty of Technology.
Industrial partner: Global Ispat Koksna Industrija Lukavac (GIKIL)
Project time: 2006.
Participant and collaborator in project: Dr. Elvis Ahmetović.

2005 Simulation and Verification of De-sorption Column for Ammonium Waters in GIKIL from an Old Ammonia Combustion Plant.
Project task holder: University of Tuzla, Faculty of Technology.
Industrial partner: Global Ispat Koksna Industrija Lukavac (GIKIL)
Project time: 2005.
Participant and collaborator in project: Dr. Elvis Ahmetović.

2002-2003 Project title: Computer Aided Process Optimization.
Programme: Scientific and technological collaboration between Bosnia and Herzegovina and the Republic of Slovenia.
Project period: January 01, 2002-December 31, 2003.
Partners: University of Tuzla, Faculty of Technology (Bosnia and Herzegovina) and University of Maribor, Faculty of Chemistry and Chemical Engineering (Slovenia).
Participant and collaborator in project: Dr. Elvis Ahmetović.

CEEPUS project 2012-2022 Coordinator of the CEEPUS (Central European Exchange Program for University Studies) project "'PhD in Chemistry and Chemical Engineering" at the Faculty of Technology, University of Tuzla.

Erasmus + project 2019-2023 Coordinator of the Erasmus+ project "INTERnationalization at Home: Embedding Approaches and Structures to Foster Internationalization at Western Balkans (INTERBA)" at the University of Tuzla

Selected Guest & Invited Lectures & Seminars & Trainings

Lecture at Re-training: Didactics, curriculum development, and curriculum planning. Hybrid Workshops and Re-Training within the Erasmus+ Project "INTERBA", Univerzitet u Tuzli, Tehnološki fakultet, Tuzla, Bosna I Hercegovina, Decembar 28-29, 2022.

Invited Lecture: International cooperation and inter-university cooperation - possibilities and perspectives. Rector's Conference "Higher Education, Public Universities and Development Perspectives", University of Sarajevo, Sarajevo, Bosnia and Herzegovina, December 1, 2022.

Plenary lecture: Importance of Water and Energy Integration in Circular Economy Approach. The 5th International Conference on Technologies & Business Models for Circular Economy, September 12-14, 2022, Portorož, Slovenia. Plenary Lecture.

Invited Lecture: Tips for writing project proposals. Connect2022, Neum, Bosna i Hercegovina, Avgust 28-Septembar 3, 2022.

Lecture at Training: Combined Water and Energy Integration in the Process Industries. Training within the Erasmus+ Project "INTERBA", Palermo, Italy, July 18-20, 2022.

Lecture at Training: Combined Water and Energy Integration in the Process Industries. Training within the Erasmus+ Project "INTERBA", Tirana, Albania, April 11-14, 2022.

Invited lecture at workshop: Presentation of Erasmus+ KA2 project "INTERnationalization at Home: Embedding Approaches and Structures to Foster Internationalization at Western BAlkans", University of Tuzla, Tuzla, Bosnia and Herzegovina, December 10, 2021

Invited lecture at workshop: Experience from realized mobilities within Erasmus+ KA1 programme, University of Tuzla, Tuzla, Bosnia and Herzegovina, December 10, 2021

Invited lecture: How to write the best project proposal and get funds. Connect2021, Neum, Bosnia and Herzegovina, August 9-13, 2021

Invited lecture: Writing project proposals. Connect2020, Neum, Bosnia and Herzegovina, August 22-29, 2020

PSE Seminar: Synthesis, Optimisation and Heat Integration of Evaporation Systems, Bremen (Germany), July 25, 2019. Seminar given at the University of Bremen, Laboratory of Process Systems Engineering.

Training: HEInnovate Train the Trainers, Sofia (Bulgaria), November 15-16, 2018. Active participation in training, workshops and discussions.

Seminar/Workshop organized within the 22th Summer University of Tuzla: Application of computer aided process engineering for reducing water/energy consumption and waste generation in technological processes. Tuzla, Bosnia and Herzegovina, July 4, 2017. Seminar held within the SCOPES (Scientific Co-operation between Eastern Europe and Switzerland) research project.

Plenary lecture: Water and heat integration in the process industry, 5th Environmental Resources, Sustainable Development and Food Production-OPORPH 2017, November 16-17, Tuzla, Bosnia and Herzegovina

CEEPUS Lecture: Synthesis of Heat-Integrated Water Networks. Faculty of Chemistry and Chemical Engineering, University of Maribor, Maribor, Slovenia, June 2013.

Invited Session Lecture: Sustainable Water, Wastewater, and Energy Management in the Process Industries. „10th Conference of Chemists, Technologists and Environmentalists of RS“. November 15 - 16, 2013, Banja Luka.

Guest Lecture: Process Integration: Water and Energy Optimization in Process Industry, Lappeenranta University of Technology, Lappeenranta, Finland, September 21, 2012.

Invited Lecture: Water Network Synthesis in Process Industry. IX Meeting of Young Chemical Engineers, "New Technologies & Knowledge Transfer, University of Zagreb, Croatia, February 16-17, 2012.

Seminar: "Fulbright Visiting Scholar Program 2008-2009" organized on the occasion of the 50th anniversary of the Faculty of Technology in Tuzla. October 23.10.2009.

Process Systems Engineering Seminar: General superstructure and global optimization for the design of integrated process water networks. Carnegie Mellon University, Department of Chemical Engineering. Pittsburgh, PA, USA. August 28, 2009.

Guest Lecture: Unit operations in food industry. Thermal properties of food. Heat-exchangers, Evaporation. Agriculture-Food Faculty. University of Sarajevo. May, 2005.

Honours & Awards & Scholarships & Grants

Federal Science Award for Technical Science awarded by the Federal Ministry of Education and Science and the Government of the Federation of Bosnia and Herzegovina, 2022.

Federal Science Award for the Popularization and Promotion of Science awarded by the Federal Ministry of Education and Science and the Government of the Federation of Bosnia and Herzegovina, 2021.

Erasmus + mobility for teaching, 2018, 2019, 2021

Research grant from the Federal Ministry of Education and Science Bosnia and Herzegovina for a research project, 2016-2017.

Erasmus + mobility for training, 2016.

DAAD Scholarship Programme, Research Stays for University Academics and Scientists, 2019.

Research grant for the SCOPES (Scientific co-operation between Eastern Europe and Switzerland) project, 2014-2017.

Best paper award at the 7th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), 2012.

EM2-STEM Scholarship, 2012.

JoinEU SEE Scholarship, 2011/2012

DAAD Scholarship Programme, Research Stays for University Academics and Scientists, 2011.

Fulbright Visiting Scholar Program Grant for Postdoctoral Research, 2008/2009

Award of Rector of the University of Tuzla for excellent work results at the Faculty of Technology, 2007

Award of Cantonal Ministry of Education, Science, Culture and Sport for PhD study, 2005

Scholarship for postgraduate training (Collaboration between University of Rovira and Virgili, Spain, and University of Tuzla, Bosnia and Herzegovina), 2001

Scholarships for postgraduate training. Ministry of Science and Technology of Slovenia, 2000/2001

Postgraduate Student Grants (Supported by Austrian Federal Chancellery), 2000.

Reviewer for Journals

AIChE Journal
Chemical Engineering Research and Design
Computers and Chemical Engineering
Chemical Engineering Science
Industrial & Engineering Chemistry Research
Applied Energy
Energy
Journal of Cleaner Production
Journal of Environmental Management
Sustainable Production and Consumption
Latin American Applied Research - An International Journal
Chemical and Biochemical Engineering Quarterly
Thermal Science
Croatian Journal of Food Science and Technology
Chemical Engineering Transactions Resource-Efficient Technologies
Journal of Sustainable Development of Energy, Water and Environment Systems
Chemical Engineering Transactions
Frontiers in Chemical Engineering
Chemistry in Industry
Journal of Environmental Chemical Engineering

Reviewer of Books & Book Chapters

Advances in Carbon Management Technologies (2020). Editors: Subhas Sikdar and Frank Princiotta. CRC Press.

Sustainable Utilization of Natural Resources (2017). Editors: Prasenjit Mondal and Ajay K. Dalai. Boca Raton, CRC Press.

Alternative Energy Sources and Technologies Process Design and Operation (2016). Editor: Mariano Martín Martín. Cham, Springer.

Introduction to Software for Chemical Engineers (2014). Editor: Mariano Martín Martín. Boca Raton, Florida, CRC Press.

Editor

Research Topic "Combined Water and Heat Integration in the Process Industries", Frontiers in Chemical Engineering, Computational Methods in Chemical Engineering, 2020- https://www.frontiersin.org/research-topics/15636/combined-water-and-heat-integration-in-the-process-industries

Memberships

Corresponding member of the Academy of Sciences and Arts of Bosnia and Herzegovina (ANUBiH) in the Department of Technical Sciences, from December 20, 2022.

Member of the Editorial Board of the journal Chemistry in Industry, 2022. http://silverstripe.fkit.hr/kui/assets/Uploads/Novosti-KUI-2022-03-04-235-244.pdf

Member of International Scientific Committee, the 32nd European Symposium on Computer-Aided Process Engineering (ESCAPE), June 12-15, 2022, Toulouse, France.

Member of Scientific Advisory Board, the 3rd Latin American Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), July 24–28, 2022, Sao Paulo, Brazil.

Member of Scientific Advisory Board, the 5th South East European Conference on Sustainable development of Energy, Water and Environment Systems (SEE SDEWES), May 22–26, 2022, Vlore, Albania.

Member of International Scientific Committee, the 31st European Symposium on Computer-Aided Process Engineering (ESCAPE), June 6-9, 2021, Istanbul, Turkey.

Member of Scientific Advisory Board, the 15th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), September 1–5, 2020, Cologne, Germany.

Member of Scientific Advisory Board, the 4th South East European Conference on Sustainable development of Energy, Water and Environment Systems (SEE SDEWES), June 28–July 2, 2020, Sarajevo, Bosnia and Herzegovina.

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Member of Scientific Advisory Board, the 1st Asia Pacific Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), April 6–9, 2020, Gold Coast, Australia.

Member of Scientific Advisory Board, the 2nd Latin American Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), February 9–12, 2020, Buenos Aires, Argentina.

Member of International Scientific Committee, the 29th European Symposium on Computer-Aided Process Engineering (ESCAPE), June 16-19, 2016, Eindhoven, the Netherlands.

Member of the Energy Section-Energy and Resources Efficiency in the Chemical and Process Industry, European Federation of Chemical Engineering (EFCE), from 2019.

Member of Scientific Advisory Board, the 14th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), October 1–6, 2019, Dubrovnik, Croatia.

Member of Scientific Advisory Board, the 13th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), September 30–October 4, 2018, Palermo, Italy.

Member of Scientific Advisory Board, the 1st Latin American Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), January 28–31, 2018, Rio de Janeiro, Brazil.

Member of International Advisory Committee, the 10th International Conference on Sustainable Energy & Environmental Protection (SEEP), Water and Air Quality, June 27-30, 2017, Bled, Slovenia.

Member of International Advisory Committee, the 25th Croatian Conference of Chemists and Chemical Engineers with International Participation (25. HRVATSKI SKUP KEMIČARA I KEMIJSKIH INŽENJERA s međunarodnim sudjelovanjem), April 19-22, 2017, Poreč, Croatia.

Member of Scientific Advisory Board, the 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), October 4–8, 2017, Dubrovnik, Croatia.

Member of Scientific Advisory Board, the 2nd South East European Conference on Sustainable development of Energy, Water and Environment Systems (SEE SDEWES), June 15–18, 2016, Piran, Slovenia.

Member of International Scientific Committee, the 26th European Symposium on Computer-Aided Process Engineering (ESCAPE), June 12-15, 2016, Portorož, Slovenia.

Member of Scientific Advisory Board, the 10th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), September 27–October 2, 2015, Dubrovnik, Croatia.

Member of Scientific Advisory Board, the 9th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), September 20–27, 2014, Venice-Istanbul, Turkey.

Member of Scientific Advisory Board, the 1st South East European Conference on Sustainable development of Energy, Water and Environment Systems (SEE SDEWES), June 29–July 3, 2014, Ohrid, Republic of Macedonia.

Member of Scientific Advisory Board, the 8th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), September 20–27, 2013, Dubrovnik, Croatia.

Senior Member of American Institute of Chemical Engineers (AIChE), from 2016.

Member of the Senate of the University of Tuzla, from 2017-2021.

Member of Steering Committee of University Sport Society, University of Tuzla, from 2016.

Member of American Institute of Chemical Engineers (AIChE), from 2009

Member of Croatian Society of Chemical Engineering (HDKI), from 2002.

Video presentations and guest appearances on television

YouTube

2023

Guest appearance in the program Good Morning TK of Radio television of the Tuzla Canton on the occasion of receiving the federal award for technical sciences for a significant scientific achievement in the field of technical sciences and election as a corresponding member of the Academy of Sciences and Arts of Bosnia and Herzegovina:

https://youtu.be/8ZKzjRSs_bc

https://youtu.be/GSOoyXmRXD0

2022 Guest appearance in the program Putokaz of Radio television of Tuzla Canton related to obtained the annual federal award for technical sciences for a significant scientific achievements in the field of technical sciences through a series of scientific works that form a whole and contribute to the expansion of existing scientific knowledge in the field of chemical engineering, synthesis and optimization of heat-integrated water networks and integration of water and energy in technological processes:

https://youtu.be/Pmw0z3y7Kss

https://youtu.be/vlX3mss9S2w

2022 Interview for the Radio Television of Tuzla Canton on the occasion of the implementation of workshops and training at the University of Tuzla as part of the Erasmus+ project entitled "INTERnationalization at Home: Embedding Approaches and Structures to Foster Internationalization at Western Balkans (NTERBA):

https://youtu.be/bBTUMGkGhlU

https://youtu.be/KeX0ZplmENc

2022 Presentation at the Rector's Conference, entitled "Higher education, public universities and development perspectives", which was held on December 1, 2022. at the University of Sarajevo. The presentation refers to the conference topic "International cooperation and inter-university cooperation-possibilities and perspectives" in which I highlighted some of the previous experiences from international and inter-university cooperation and general conclusions regarding the topic, which can be significant for universities in Bosnia and Herzegovina:

https://youtu.be/KPOxkV_6Bto

2022 Presentation at the international conference entitled Circular Economy-Opportunities and Challenges held from November 17 to 18, 2022 in Tirana (Albania):

https://youtu.be/2ABnlzIIo-c

2022 Guest appearance on the program Good Day TK of Radio television Tuzla Canton on the occasion of receiving the federal award for the popularization and promotion of science and for contributing to the spreading of scientific knowledge through publication, presentation and promotion on the domestic and international level:

https://youtu.be/7cXgpkRRWZk

2022 Guest appearance on the program Putokaz of Radio television Tuzla Canton related to the obtained annual federal award for the popularization and promotion of science:

https://youtu.be/-7vN-PWgqcY

2021 How to write a successful project proposal and get funds, Connect2021, Neum:
https://youtu.be/7cXgpkRRWZk

2021 Promotion of mobility within the Erasmus+ program at Pamukkale University (Denizli, Turkey):
https://youtu.be/ejF5hTtD1hM

2021 Presentation and promotion of the Erasmus+ project entitled INTERnationalization at Home: Embedding Approaches and Structures to Foster Internationalization at Western Balkans/ INTERBA, at the 26th Summer University in Tuzla:

https://youtu.be/rGOM2ZhP6PQ

2020 Guest appearance on the program Putokaz Radio television of Tuzla Canton related to international projects at the University of Tuzla (watch from 1:08 to 01:34 minutes and 17:05 to 21:14 minutes):

https://youtu.be/dg-pOsSa4xM

2020 How to Write Project Proposals, Connect2020, Neum:
https://youtu.be/Uv07V0ICQbw

2020 The importance of international cooperation and mobility for research and education at universities. The video was prepared for the European Night of Researchers in Bosnia and Herzegovina in 2020, and its goal is to point out the importance of international cooperation and mobility for research and education at universities:

https://youtu.be/qfIs_Kl5nZ8

2014 Interview for Radio Television of Tuzla Canton recorded at the University of Tuzla on the occasion of the presentation of the projects that are being implemented at the University of Tuzla. Presented experience from participation in international cooperation in various projects including also the CEEPUS (Central European Exchange Program for University Studies).

Previous Mentors and Advisors

Midhat Suljkanović, Full Professor, University of Tuzla, Faculty of Technology, Tuzla, Bosnia and Herzegovina.

Zdravko Kravanja, Full Professor, Dean, University of Maribor, Faculty of Chemistry and Chemical Engineering, Maribor, Slovenija.

Ignacio Grossmann, Full Professor, Rudolph R. and Florence Dean University Professor, Carnegie Mellon University, Department of Chemical Engineering, Pittsburgh, Pennsylvania (USA).

ANNEXES

More information about my educational and research work can be found at the following web page: www.tf.untz.ba/elvis.ahmetovic or can be supplied on request.