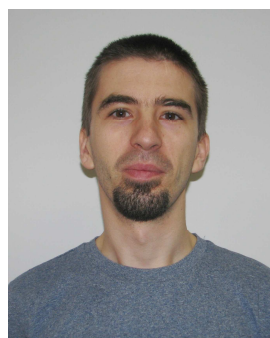


Curriculum vitae



First name and Surname	Zoltán Török		
Date of birth	12.04.1982		
Actual didactic position	Assistant professor		
Institution	Babeş-Bolyai University, Faculty of Environmental Science and Engineering		
Correspondence address	30 Fântânele St., office E.1.3		
E-mail	zoltan.torok@ubbcluj.ro		
Telephone	0264-583378		
Studies	Date of graduation	Institution	
PhD. in Chemistry	2010	Babeş-Bolyai University, Faculty of Environmental Science and Engineering	
Master in Risk assessment	2006	Babeş-Bolyai University, Faculty of Environmental Science and Engineering	
Chemical engineer	2005	Babeş-Bolyai University, Faculty of Chemistry and Chemical and Engineering	
High School	2000	„Tamási Áron” theoretical High School, Odorheiu Secuiesc	
Didactic career – Didactic function	Period	Holder/Associate	Institution
Assistant professor	2011 - present	holder	Faculty of Environmental Science and Engineering
Research assistant	2006 - 2011	-	Research Center for Disaster Management, Faculty of Environmental Science and Engineering

1. Scientific domain of interest

Technological and NaTech risk assessment. Modeling and simulation of chemical accidents.

2. Foreign languages

English – advanced; Hungarian – native.

3. Positions held

- ERASMUS coordinator within the Faculty of Environmental Science and Engineering
- Member of the Ethics Commission and International Relations Commission

4. Member of scientific and professional organizations

Member of the Research Center for Disaster Management, Faculty of Environmental Science and Engineering, since 2006.

5. Didactic activities

- Courses and seminars held at the Faculty of Environmental Science and Engineering:

1. Risk assessment and disaster management (courses and laboratory) – Environmental engineering specialization, 4th year: Laboratory work since 2006 and both courses and laboratories since 2010.
2. Chemical reactions engineering for environmental protection (courses and seminars) - Environmental engineering specialization, 3rd year: Seminars since 2006 and both courses and seminars since 2010.
3. Analysis of environmental samples (courses and laboratory) – Environmental science specialization, 3rd year, Hungarian section, since 2011.
4. Investigation of environmental factors (courses and laboratory) – Environmental science specialization, 3rd year, Hungarian section, since 2011.

- Courses and seminars held at the Faculty of Environmental Science and Engineering, Sfantu Gheorghe extension:

1. Chemical reactions engineering for environmental protection (courses and seminars) - Environmental engineering specialization, 3rd year: Courses and seminars since 2012.
2. Risk assessment and disaster management (courses and laboratory) – Environmental engineering specialization, 4th year: courses and laboratories since 2013.

- Courses and seminars held at the Faculty of Chemistry and Chemical and Engineering, Babes-Bolyai University:

1. Hazard and risk in the process industries (courses and laboratory) – Environmental engineering specialization, 4th year: courses and laboratories since 2010.

6. Scientific coordinating activities

1) Coordinator of 18 Bsc. dissertation works at the specialization of Environmental engineering and Environmental Science, Faculty of Environmental Science and Engineering. Coordinator of 7 Msc. dissertation works at the specialization of Risk Assessment and Environmental Safety, Faculty of Environmental Science and Engineering.

2) Supervising and tutoring activities:

- 2008-2012: Tutor of the Biotechnical and Ecological Systems Engineering specialization.
- 2012- present: Supervisor of the Biotechnical and Ecological Systems Engineering specialization (Year II).

3) Member in the supervisor committee of the following PhD. students:

1. Ajtai Nicolae - the thesis was defended in September 2012
2. Crișan (Gheorghiu) Augusta Diana – the thesis was defended in 24 September 2013
3. Olah (Vasile) Alexandrina
4. Kozma Peti (căș. Kozma Kiss) Elisabeta Edita
5. Balcu (Bejenaru) Oriana Monica
6. Cirican (Nistor) Ionela

7. Emil Roman
8. Francisc Senzaconi

4) Member in 3 Bsc. dissertation committees in July 2012:

1. Environmental Science – Hungarian section; Faculty of Environmental Science and Engineering;
2. Biotechnical and Ecological Systems Engineering - Faculty of Environmental Science and Engineering, Sfantu Gheorghe extension;
3. Environmental Engineering – Pitești University;

5) Member in 3 Bsc. dissertation committees in July 2013:

1. Biotechnical and Ecological Systems Engineering - Faculty of Environmental Science and Engineering, Sfantu Gheorghe extension;
2. Environmental Engineering – Agricultural Sciences and Veterinary Medicine University of Iasi;
3. Environmental Engineering – Pitești University;

7. Member in the organizing and scientific committee of International conferences

- , edițiile: V (2006 – Baia Mare), VI (2007 - Sibiu), VII (2008 – Cluj-Napoca), VIII (2010 - Cluj-Napoca), IX (2012 - Cluj-Napoca).
- International U.A.B. – B.EN.A. Conference: Environmental Engineering And Sustainable Development, Alba Iulia, 23-25 mai 2013.

8. Editor of volumes published in international publishing

Editor of ELSEDIMIA IX “Environmental Legislation, Safety Engineering and Disaster Management” International Conference volume, Environmental Engineering and Management Journal, Print ISSN: 1582-9596.

9. Papers published in ISI journals/volumes

1. **Zoltán TÖRÖK**, Nicolae AJTAI, Adrian T. TURCU, Alexandru OZUNU, *Comparative consequence analysis of the BLEVE phenomena in the context on Land Use Planning; Case study: The Feyzin accident*, Process Safety and Environmental Protection, 89 (2011) pp. 1-7.
2. **TÖRÖK, Z.**, OZUNU, A., CORDOȘ E., *Chemical risk analysis for land-use planning. I. storage and handling of flammable materials*, Environmental Engineering and Management Journal, January 2011, Vol.10, No. 1, 81-88.
3. Nicolae AJTAI, **Zoltán TÖRÖK**, Alexandru OZUNU, *Air Quality Modelling of SO2 Emissions Associated to Metallurgical Processes*, Studia Universitas Babeș – Bolyai, seria Chemia, LVII, 1, 2012, p 57-66
4. **Zoltán TÖRÖK**, Nicolae AJTAI, Alexandru OZUNU, *Chemical Risk Area Estimation as a Tool for Efficient Emergency Planning*, Studia Universitas Babeș – Bolyai, seria Chemia, ISSN 1224 – 7154.
5. **Zoltán TÖRÖK**, Alexandru OZUNU, *Chemical risk assessment for storage of hazardous materials in the context of Land Use Planning*. AES BIOFLUX 2(1): 33-56
6. STEZAR, C.I., MODOI, O.C., **TÖRÖK, Z.**, AJTAI, N., CRIȘAN, A.D., COȘARA, G.V., SENZACONI F., OZUNU, A., *Preliminary investigation and risk assessment of contamination on an industrial site in maramures county*, Environmental Engineering and Management Journal, January 2011, Vol.10, No. 1, 65-73.

7. MIHAIESCU, R., MIHAIESCU, T., AJTAI, N., **TÖRÖK, Z.**, OZUNU, A., 2011, *Air quality modelling as a tool used in selecting technological alternatives for developing a new abrasive facility*, AES BIOFLUX, pp. 123-128.
8. OLAH, A., STEZAR, I.-C., **TÖRÖK, Z.**, OZUNU, A., 2013, *Soil remediation comparative analysis on two historically contaminated industrial sites in Romania*, AES BIOFLUX, Vol.5/2, pp. 178-188.
9. DEACONU L.-T., AJTAI, N., **TÖRÖK, Z.**, OZUNU, A., *Sulphur dioxide emissions modeling and monitoring, originating from a large combustion power plant*, AES BIOFLUX, Vol. 5/2, pp. 141-147.
10. GHEORGHIU, A.-D., **TÖRÖK, Z.**, OZUNU, A., ANTONIONI, G., COZZANI, V., *Comparative analysis of technological and Natech risk for a petroleum products storage tank farm located in a seismic area*, Accepted for publication in: *Environmental Engineering and Management Journal*, Vol. 13/5, 2014.

10. Papers published in BDI journals/volumes

1. OZUNU, A., **TÖRÖK, Z.**, COSARA, V., CORDOS, E., DUTRIEUX, A., (2008), *Vulnerability Mitigation and Risk Assessment of Technological Disaster*, NATO Science for Peace and Security Series, E: Human and Societal Dynamics, Volume 35, *Risk Assessment as a Basis for the Forecast and Prevention of Catastrophies*, Edited by Ion Apostol, Wilhelm G. Coldewey, David L. Barry, Dieter Reimer, ISBN 978-1-58603-844-1, Springer Publishing House Netherlands.
2. ȘTEFĂNESCU, N. L., **TÖRÖK, Z.**, SENZACONI F., OZUNU, A., 2013, *Quantitative Fire Risk Assessment Procedure at Pesticide Storage Facilities in Romania*, *Environmental Security Assessment and Management of Obsolete Pesticides in Southeast Europe*, NATO Science for Peace and Security Series C: Environmental Security, Springer Science + Business, pp. 285-293.

11. Papers published in volumes of International conferences

1. A. OZUNU, **Z. TÖRÖK**, *Quantitative Methods used in risk assessment: case of a chemical accident on a liquefied chlorine storage vessel*, Proceedings of the 33rd International Conference of SSCHE May 22–26, Publisher Slovak University of Technology, ISBN 80-227-2409-2, 2006, Tatranské Matliare, Slovakia, pag. 104-1....104-9.
2. **Z. TÖRÖK**, AI. OZUNU, Á. IMRE, *Simularea accidentelor cu deversări de clor, utilizând softuri comerciale și unul dezvoltat din metoda DIERS*, Conferința ELSEDIMA, Baia Mare, 2006.
3. **TÖRÖK, Z.**, OZUNU, A., COSTAN, C., CORDOȘ. E., *Risk area estimation using a complex 3D terrain model: case study of an accidental chlorine release scenario in Turda city*, Romania, Proceedings of the 34th International Conference of SSCHE May 21–25, Publisher Slovak University of Technology, ISBN 978-80-227-2640-5, 2007, Tatranské Matliare, Slovakia.
4. **TÖRÖK, Z.**, AJTAI, N., OZUNU, A., *Risk Area Estimation and Effect Analysis Using a Complex 3D Terrain Model. Case Study: -An Accidental Phosgene Release Scenario Near Râmnicu-Vâlcea, Romania-*, The 35th International Conference of Slovak Society of Chemical Engineering, Tatranské Matliare, Slovakia, 26 – 30 May 2008
5. OZUNU, A., ȘTEFĂNESCU, Lucrina, COSTAN, Camelia, **TÖRÖK, Z.**, MUNTEAN, L., CADAR, Doris, ROMAN, E., MĂRGINEAN, Sanda, ULMEANU,

- P., PETCU, Andreea, 2007, *APELL Technical Platform - Presentation, Experience, Case Studies*, 4th International Conference on Environmental Engineering and Management ICEEM/04, Sustainable Use of Natural Resources, 12-15 Septembrie 2007, Iași, Romania
6. **TÖRÖK, Z.**, AJTAI, N., OZUNU, A., *Fire and Explosion Risk Identification at a Degasification Station*, 36th Edition of the Slovak Society of Chemical Engineering, Vysoke Tatry, Tatranske Matliare, May 2009.
 7. **Z. TÖRÖK**, N. AJTAI, A. OZUNU, *Semi-quantitative risk analysis of a possible accident scenario at a gasoline storage facility*, TIEMS – Fuel Safety and Disaster Management Workshop, 2008, Luxemburg
 8. **TÖRÖK, Z.**, OZUNU, A., COSTAN, C., CORDOȘ. E., *Risk area estimation using a complex 3D terrain model: case study of an accidental chlorine release scenario in Turda city, Romania*, Proceedings of the 34th International Conference of SSCHE May 21–25, Publisher Slovak University of Technology, ISBN 978-80-227-2640-5, 2007, Tatranské Matliare, Slovakia.
 9. **TÖRÖK, Z.**, AJTAI, N., OZUNU, A., *Fire and Explosion Risk Identification at a Degasification Station*, 36th Edition of the Slovak Society of Chemical Engineering, Vysoke Tatry, Tatranske Matliare, May 2009
 10. AJTAI, N., OZUNU, A., STEFANIE, H., **TÖRÖK, Z.**, 2011, *Integrated technologies for improving atmospheric risk and impact assessment models and studies*, Steibeis-Edition, 3-rd iNTeg Risk Conference
 11. AJTAI, N., OZUNU, A., STEFANIE, H., **TÖRÖK, Z.**, 2011, *Preliminary results of Modeling and Monitoring of SO₂ emissions from Rovinari Large Combustion Power Plant in September 2010*, INOE, 5th International Workshop on Optoelectronic Techniques for Environmental Monitoring.

12. Papers published in national volumes/journals

- 1) ROȘU, C., COSTAN, C., ARGHIUȘ, V., MANCIULA, D., **TÖRÖK, Z.**, *Quality of groundwater in Feleacu village, Cluj County (Romania) and its suitability for domestic and irrigation purpose*, Conferința națională cu participare internațională: Environment & Progress 2009 Environment – Research, Protection and Management 5- 8 November 2009 Cluj-Napoca, Environment & Progress 15/2010.
- 2) ROȘU, C., COSTIN, D., COSTAN, C., **TÖRÖK, Z.**, *Clasificarea diverselor sortimente de apă îmbuteliate în România*, Environment & Progress 2010, nr. 14, pg. 231-236.

13. Papers published in volumes of national conferences

1. AI. OZUNU, Á. IMRE, Z. TÖRÖK - *Simulation of accidental chlorine releases, using commercial software and one developed from DEIRS method*, Zilele academice clujene: “Simpozion Național de Inginerie Chimică, Cluj-Napoca, 2006.
2. OZUNU, A., ȘTEFĂNESCU, Lucrina, COSTAN, Camelia, TÖRÖK, Z., MUNTEAN, L., CADAR, Doris, ROMAN, E., MĂRGINEAN, Sanda, *APELL Technical Platform Presentation, Experience, Case Studies*, CEEX Conference, 2007 – Excellence Research as a Way to E.R.A., Brașov, 24-26 October 2007, ISSN 1843-5904, Editors: Nicolae Vasiliu, Lanyi Szabolcs.

14. Other papers

- 1) **TÖRÖK, Z.**, ROMAN, E., COSTAN, CAMELIA, PROOROCU, M., OZUNU, A., (2006), *Emisii accidentale de substanțe periculoase*, în Implementation of the Kyoto Protocol and the European Union Directives on Emission Trading in Romania, Editori: Marian Proorocu, Alexandru Ozunu, Editura Accent, Cluj-Napoca, ISBN 973-8915-25-2, pag. 99 – 109.
- 2) **TÖRÖK, Z.**, AJTAI, N., *Programe de simulare utilizate in Evaluarea Riscului si Evaluarea Impactului asupra Mediului*, Revista de protecție civilă, nr. 3-4, ianuarie 2009, ISSN: 1223-575X, pag. 49-52.

15. Books published at national publishers

1. Török Zoltán, Ajtai Nicolae, Ozunu Alexandru, *Aplicatii de calcul pentru evaluarea riscului producerii accidentelor industriale majore ce implica substante periculoase (in Romanian)*, Editura EFES, 2011, Cluj-Napoca.

16. Participation in international research projects

CNMP/ESTROM „Romanian Atmospheric Research 3D Observatory – RADO” International Project, 2009-2010.

17. Participation in national research projects

1. RESOLMET Project: *PNCDI II – Programul 4: PARTENERIATE IN DOMENIILE PRIORITARE, Nr.contract: 32161/2008*
2. DENATEH Project - Reducerea vulnerabilității și combaterea consecințelor DEzastrelor NAturale și TEHnologice, în sprijinul comunităților locale, *asistent cercetare*, 2006 – 2008.

18. Didactic and research placements

1. ERASMUS teaching mobility: Pannónia University, Veszprém, Hungary, September 2009.

Date:

01 November 2013
Zoltán

Signature:

Assist. Prof. Dr. Ing. Török