

EMRE ALP, PhD

Assoc. Professor, Middle East Technical University
Department of Environmental Engineering
06800, Ankara, Türkiye

e-mail: emrealp@metu.edu.tr, **Phone:** +90 312 210 58 53, **Fax:** +90 312 210 2646

INTEREST AREAS

- Water-Energy-Food-Ecosystem Nexus
- Sustainable Smart and Eco-cities
- Circular Economy
- Watershed Management
- Environmental Management and Policy
- Environmental Economics
- Diffuse Pollution
- Water Quality Modeling

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- The International Water Association (IWA)
- Water Environment Federation (WEF)
- The American Geophysical Union (AGU)
- Chamber of Turkish Environmental Engineers

AWARDS

- Post-Doctoral Scholarship from Marquette University, 2006-2008
- Research/teaching Assistantship from the Marquette University, 2000-2006.

ADMINISTRATIVE DUTIES

- **Vice Chairperson**, Middle East Technical University, Environmental Engineering Department, 2010-2015

ACADEMIC POSITIONS HELD

- **1/2014 to Present**, *Associate Prof.*, Middle East Technical University, Environmental Engineering Dept.
- **1/2011 to 1/2014**, *Assistant Prof.*, Middle East Technical University, Environmental Engineering Dept.
- **12/2008 to 1/2011**, *Instructor*, Middle East Technical University, Environmental Engineering Dept.
- **9/2008-12/2008**, *Part-time instructor*, Middle East Technical University, Environmental Engineering Dept.
- **1/2007-8/2008**, *Post-Doctoral Scholar*, Marquette University, Civil and Environmental Engineering Dept., Milwaukee, WI
- **8/2000-12/2006**, *Research/Teaching Assistant*, Marquette University, Civil and Environmental Engineering Dept., Milwaukee, WI
- **12/1997- 8/2000**, *Research/Teaching Assistant*, Middle East Technical University, Environmental Engineering Dept.

EDUCATION

- **Ph.D.**, 2002 - 2006, Marquette University, Civil and Environmental, Engineering Department, Milwaukee, WI, USA
- **M.S.**, 2000-2002, Marquette University, Civil and Environmental Engineering Department, Milwaukee, WI, USA
- **M.S.**, 1997-1999, Middle East Technical University, Environmental Engineering Department, Türkiye
- **B.S.**, 1993-1997, Middle East Technical University, Environmental Engineering Department, Türkiye

TEACHING EXPERIENCE

Undergraduate Courses

- ENVE 404 Environmental Modeling
- ENVE 409 Wastewater Engineering
- ENVE 414 Water Quality Management
- ENVE 304 Unit Operations and Processes of Wastewater Treatment
- ENVE 312 Water Supply and Urban Drainage
- ENVE 322 Transport Processes in Environmental Engineering

Graduate Courses

- ENVE 510 Principles of Risk Assessment and Management

THESIS SUPERVISED

Completed

- Özcan, Z., A Holistic Framework for Evaluating the Sustainability of the Water-Energy-Food-Ecosystem Nexus Under Multiple Socioeconomic and Climate Conditions., Ph.D Thesis, METU, 2023
- Özcan, C., Assessment of the Hydrological Alterations And Environmental Flows in Sakarya Watershed, Turkey, M.S Thesis, METU, 2021
- Özel, B., Evaluation of the Water and Food Nexus with the Focus on Agricultural Water Management in Upper Sakarya River Basin, METU, 2021
- Kabal, C., Evaluation of the Alternatives to Improve Water Quality in Gürdük Watershed Using SWAT Model, M.S Thesis, METU, 2019
- Kiraz, M., Sustainable Water and Stormwater Management for METU Campus, M.S Thesis, METU, 2018
- Özcan, Z., Evaluation of the Best Management Practices to Control Agricultural Diffuse Pollution in Lake Mogan Watershed with SWAT Model, M.S. Thesis, METU, 2016
- Özçelik, O., Assessment and Prediction of Water Quality Parameters in Lake Köyceğiz Using Artificial Neural Network Approach, M.S. Thesis, METU, 2015
- Temel, P., Evaluation of Potential Run-of River Hydropower Plant Sites using Multi-Criteria Decision Making in terms of Environmental and Social Aspects, M.S. Thesis, METU, 2015
- Can, Ö., Evaluating the Economic Benefits of Environmental Improvements in Göcek Bay using Choice Experiment Method, M.S. Thesis, METU, 2012
- Horasanlı, E., Application of Non-market Economic Valuation Method to Value the Environmental Benefits of Geothermal Energy in Monetary Terms: A Case Study in Yozgat Province, M.S. Thesis, METU, 2010

Ongoing

- Yapan, B.İ., Assessment of The Circular Economy Models in Industrial Parks with Water-Energy-Food-Ecosystem Nexus Approach, M.S Thesis, METU, 2021-
- Demir, E., Evaluation of Circular Economy Models in Agricultural Practices at Meso-Scale Under Water-Energy-Food-Ecosystem Nexus Approach, M.S Thesis, METU, 2022-
- Kart, B.B., An Integrated Assessment of Water-Centric Circular Economy Models at Macro-Scale in A Semi-Arid Location, M.S Thesis, METU, 2022-
- Habash, A, The Application of Artificial Intelligence in Water Management with Water-Energy-Food-Ecosystem Nexus Approach, M.S Thesis, METU, 2022-

CONFERENCES AND SHORT COURSES

- Local Organizing Committee Member, The IWA 4th Regional Conference on Diffuse Pollution and Eutrophication (DIPCON 2022), 24-28 October 2022, İstanbul, Türkiye
- Lecture, “Water Resources Modeling”, 17-20 November 2015, organized by Ministry of Water Affairs and Forestry
- Lecturer, “Watershed Modeling”, 19-20 March 2015, organized by Ministry of Water Affairs and Forestry
- Lecturer, “Diffuse Pollution and Modeling”, 16 May 2012, organized by Ministry of Water Affairs and Forestry
- Lecturer, “Wastewater treatment plant operation and management and “Water reclamation and reuse in the Mediterranean” coordinated by Turkish Ministry of Environment and Forestry, sponsored by UNEP (United Nations environment Programme), MAP (Mediterranean Action Plan) and WHO (World Health Organization), June 30- July 2, 2009, METU

CERTIFICATES AND SHORT COURSES ATTENDED

- Short course on Sediment Transport and its Applications in Stream Assessment and Channel Design. The course was organized by Utah State University in Logan Utah. 2019
- Short Course on Geomorphic and Ecological Fundamentals for River and Stream Restoration at Sagehen Creek Field Station, CA, USA. Organized by River-Lab, research group at the University of California Berkeley, 2018
- Short Course on Advanced Oxidation Processes for Environmental Applications, by Professor Dionissios Mantzavinos, December 2013, Ankara, Turkey.
- Short Course on Environmental Engineering, Microbiology and Next Generation Sequencing, by Professor Anthony Hay, August 2014, Ankara, Turkey.
- The courses on “Training of Internal Auditors according to TS ISO EN-IEC 17025 Standard”, “General Requirements for the Competence of Testing and Calibration Laboratories TS ISO EN/IEC 17025:2005, their Evaluation in the Laboratories and Documentation”, and “Validation / Verification of Test Methods and Measurements of Uncertainty”, January 2010, Ankara, Turkey.
- TS EN ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories Standard, Documentation, Internal Auditor Certificate, 2010.

PROJECTS

- Principal Investigator, A New Approach for Sustainable Water Management: Integration of the Circular Economy Approach to the Framework of Water-Energy-Food-Ecosystem Nexus, The Scientific and Technological Research Council of Türkiye (Project No: 121R014), 2021-2024, \$85,000
- Researcher, Autonomous Multi-Layer Resource Management for Critical Infrastructure: Electrical Power/Water/Transportation Nexus, TÜBİTAK-QNRF Joint Funding Program (QNRF Number: AICC04-0809-210014), 2023-2026, \$530,970
- Researcher, New generation 3-D Printer Production Technologies Platform, The Scientific and Technological Research Council of Türkiye (1004 - Center of Excellence Support Program, Project No: 20AG008), Project Coordinator: Gazi University, 2021-2025, \$6.2 Million
- Principal Investigator, Stormwater Management in Water Centric Eco-Cities: Evaluation of the Suitability of New Paradigms, METU Research Fund (Project No: GAP-311-2021-10726), 2021-2023, \$6,428
- Expert, Smart City Road Map for the Konya Metropolitan Municipality, Project Coordinator: ASELSAN/Sabancı University, Funded by Konya Metropolitan Municipality, 2021-2022
- Principal Investigator, Evaluation of Water, Energy and Food Nexus in Sakarya Watershed, The Scientific and Technological Research Council of Türkiye (Project No: 116Y166), 2017-2021, \$104,000
- Expert, Preparation of National Management and Action Plan for Wastewater Treatment Sludge in Türkiye, Ministry of Environment and Urbanization, 2016 - 2019.
- Principal Investigator, A Green Campus Application: Sustainable Stormwater Management in METU Campus, METU Research Fund (Project No: BAP - 08 -11 - KB2014K120600-2), 2014-2016, \$22,270
- Researcher, Development of a Methodology for Indicator-based Sustainability Assessment for Afşin-Elbistan Coal Basin Mining Activities and Electricity Production, The Scientific and Technological Research Council of Türkiye (Project No: 113M463), 2013-2016
- Principal Investigator, Evaluation of Agricultural Diffuse Pollution and its Control Alternatives with SWAT model in Lake Mogan Watershed, The Scientific and Technological Research Council of Türkiye (Project No: 111Y284), 2012-2014, \$78,000
- Principal Investigator, Water Quality Evaluation and Determination of Pollution Load Discharging into Lake Mogan, METU Research Fund (Project No: BAP - BAP-08-11-2013-008), 2013-2014, \$10,525
- Principal Investigator, Estimation of Total Maximum Daily Load for Nutrients in Lake Köycegiz, METU Research Fund (Project No: BAP - 08.11.2010.00.112), 2010-2011, \$6,666
- Researcher, Hazardous Waste Management in Compliance with European Union Environmental Regulations in Turkey, The Scientific and Technological Research Council of Türkiye (Project No: KAMAG-107G126), 2009-2012, \$2,000,000
- Researcher, Evaluation of Marine Pollution with the Support of Remote Sensing and Determination of Yacht Carrying Capacity for the Marine Protected Areas, METU Research Fund (Project No: BAP 07-02-2009-05), 2009-2011, \$26,700
- Researcher, Water-Quality Simulation in Support of the Development of an Integrated Strategy to meet Dissolved Oxygen Standards for The Chicago Area Waterways, Metropolitan Water Reclamation District of Greater Chicago, September 2007-August 2008, \$155,564

- Researcher, Evaluation of Procedures to Prevent Backflows to Lake Michigan from the Chicago Waterway System, Metropolitan Water Reclamation District of Greater Chicago, March 2007 –October 2007, \$51,988
- Researcher, Development of a Water-Quality Model for Unsteady Flow in the Chicago Waterway System and application to Proposed Changes to Navigation Make-Up Diversion Procedures, Metropolitan Water Reclamation District of Greater Chicago, September 2000-December 2005 – \$383,650
- Researcher, Hydraulic Evaluation of New or Reconstructed Bridges Over the Chicago Waterways, Department of Transportation through consultants, 2004-2007, \$29,904
- Researcher, Urban Watershed Management under Conflicting Objectives—Application of Contingent Valuation Method on Root River Watershed: Willingness to Pay For Flood Control, S.C. Johnson Fund Community Involvement Awards and Wisconsin Foundation of Independent Colleges, Racine, WI, September 2000 – May 2002 – \$10,000
- Researcher, Use Attainability Analysis of the Lower Des Plaines River, Illinois Environmental Protection Agency (IEPA) and Aquanova International, Ltd., April 2001 - October 2002 - \$31,675
- Environmental Assessment Due Diligence Project for KBI Properties of Inköy (Giresun, Turkey) and Kutlular (Trabzon, Turkey), Dardanel Mining Company, Turkey, 1998
- Researcher, Keban Dam Reservoir Limnology and Fishery Development Program, The Scientific and Technological Research Council of Turkey, 1997-2000

PUBLICATIONS

Book Chapters

Alp, E., Kentel, E., Kiraz, M., 2022, The Nexus Graduate, The Gateway to the Future of the Mediterranean Water, Energy, Food and the Environment, European Commission, Publications Office of the European Union, Luxembourg. 224 pp. European Union, 2022, ISBN 978-92-76-43375-0, doi:10.2760/925346

Publications in Refereed International Journals

- Temel, P., Kentel, E., Alp, E., 2023, Development of a site selection methodology for run-of-river hydroelectric power plants within the water-energy-ecosystem nexus, The Science of the Total Environment, Volume 856, Part 2, DOI10.1016/j.scitotenv.2022.159152
- Bahçelioglu, E., Buğdaycı, E.S, Doğan, N.B., Şimşek, N., Kaya, S.O., Alp, E., 2020, Integrated solid waste management strategy of a large campus: A comprehensive study on METU campus, Turkey, Journal of Cleaner Production, Volume 265, 121715
- Çakır N., Alp E., Yetiş Ü., 2020, Assessing technologies for reducing dust emissions from sintermaking based on cross-media effects and economic analysis, Clean Technologies and Environmental Policy, 22:1909–1928
- Özcan Z., Kentel, E. and Alp, E., 2017, Evaluation of the Best Management Practices in a Semi-Arid Region with High Agricultural Activity, Agricultural Water Management, Vol. 540, 40-49
- Özcan Z., Başkan O., Düzgün, H.B, Kentel, E., and Alp, E., 2017, A pollution fate and transport model application in a semi-arid region: Is some number better than no number?, Science of the Total Environment, Vol. 595, 425–440
- Özcan Z., Kentel, E. and Alp, E., 2016, Determination of unit nutrient loads for

different land uses in wet periods through modelling and optimization for a semi-arid region, *Journal of Hydrology*, Vol. 540, 40-49

- Şentürk, D.E. and Alp, E., 2016, Planning for the closure of uncontrolled landfills in Turkey to reduce environmental impacts, *Waste Management & Research*, 1-11
- Cakir, N., Alp, E. and Yetiş, Ü., 2016, "Evaluation of environmental performance based on proximity to BAT associated resource utilization and emission values: A case study in a Steel-Making Industry", *Waste and Biomass Valorization*, p. 1-19
- Yilmaz, O., Can Z.S., Toroz, I., Dogan, O., Oncel, S., Alp, E., Dilek, F.B., Karanfil, T., and Yetiş, Ü., 2014, "Use of theoretical waste inventories in planning and monitoring of hazardous waste management systems", *Waste Management & Research*, Vol. 32(8), 763-771
- Kentel, E. and Alp, E., 2013, "Hydropower in Turkey: Economical, social and environmental aspects and legal challenges", *Environmental Science and Policy*, 31, 34-43
- Melching, C., S., Ao, Y. and Alp, E., 2013, "Modeling evaluation of integrated strategies to meet proposed dissolved oxygen standards for the Chicago waterway system", *Journal of Environmental Management*, 116, 145-155
- Can, Ö. and Alp, E., 2012, "Valuation of environmental improvements in a specially protected marine area: A choice experiment approach in Göcek Bay, Turkey", *Science of the Total Environment*, 439, 291-298
- Alp, E. and Melching, C.S., 2011, Allocation of supplementary aeration stations in the Chicago waterway system for dissolved oxygen improvement, *Journal of Environmental Management*, 92, 1577-1583
- Yiğit, C., Maden, G., Disa, N., Yılmaz, O., Ogutverici, A., Alp, E., Unlu, K., Gokçay, C.F., Dilek, F.B., Dogan, O., Karanfil and T., Yetiş, U., 2011, "Hazardous waste management in Turkey: current legislative requirements and future challenges", *Desalination and Water Treatment*, 26 (2011) 152-159
- Alp, E. and Yetiş, Ü., 2010, "Application of the Contingent Valuation Method in a Developing Country: A Case Study of the Yusufeli Dam in Northeast Turkey", *Water Science and Technology*, 62(1), 99-105
- Alp, E. and Melching, C.S., 2009, "Evaluation of the Duration of the Storm Effects on In-Stream Water Quality", *Journal of Water Resources Planning and Management*, ASCE, Vol. 135, No. 2, March 1, 2009, 107-116
- Alp, E., Melching, C.S., Zhang, H., and Lanyon, R., 2007, "Effectiveness of Combined Sewer Overflow Treatment for Dissolved Oxygen Improvement in the Chicago Waterways", *Water Science and Technology*, 56(1), 215-222.

EDITED CONFERENCE PROCEEDINGS

- 5th International Conference on Diffuse/Nonpoint Pollution and Watershed Management, IWA Conference Proceedings (Alp, E. and Melching, C.S., Eds.), Milwaukee, Wisconsin, 2001.

PUBLICATIONS IN INTERNATIONAL CONFERENCE PROCEEDINGS

- Şenocak, İ., Bektaş, H.O, Erkan, Y., Şimşek, G., Tuna, A., Çakıcı Alp, S., Afşar, M.H., Alp, E., A Land-Suitability Analysis for Low Impact Development Applications in Ankara, Türkiye, The IWA 4th Regional Conference on Diffuse Pollution and Eutrophication (DIPCON 2022), 24-28 October 2022, İstanbul, Türkiye
- Demir, E., Alp, E., Mitigation of Diffusion Pollution Through Circular Economy, The IWA 4th Regional Conference on Diffuse Pollution and Eutrophication (DIPCON 2022), 24-28 October 2022, İstanbul, Türkiye
- Özdemir, E., Alp, E., 2022, Evaluation of the Water-Energy-Food Nexus in the context

- of Precision Agriculture, The IWA 4th Regional Conference on Diffuse Pollution and Eutrophication (DIPCON 2022), 24-28 October 2022, İstanbul, Türkiye
- Özel, B., Demir, Y., Başkan, O., Alp, E., 2020, Evaluation of effectiveness of the water management strategies with the focus on agricultural water use: A case study on Upper-Sakarya River Basin in Turkey, 4-8 May 2020, EGU General Assembly, Conference Abstracts
 - Alp E., Özcan Z., Özcan C., Özel B., Başkan O., Demir Y., Kentel Erdoğan E., Aydinalp Köksal M., Evaluation of the Water-Energy-Food Nexus with the Focus on Climate Change in a Semi-arid Watershed, Turkey, WEFTECT 2020, 5-9 October, 2020, Online
 - Yoloğlu O.C., Alp, E., Investigation of Low Impact Development Potential for a Densely Populated Area in a Semi-arid Climate, AGU 2020 Fall Meeting, 1-17 December 2020, Online
 - Özdemir, E., Alp, E., Quantification of Water Savings Using Intelligent Irrigation Systems: Application of CROPWAT Model in a Semi-arid Watershed, AGU 2020 Fall Meeting, 1-17 December 2020, Online
 - Özcan Z. , Aydinalp Köksal M., Alp E., Least Cost Optimization in Middle Sakarya River Basin with the focus on Water-Energy Nexus, AGU Fall Meeting 2019, San-Francisco, U.S.A, 9 - 13 December 2019
 - Özel B., Başkan, O., Alp, E., Water-Food Nexus in Sakarya Watershed, 10th IWA International Symposium on Waste Management Problems in Agro-Industries (AGRO'2019), Rhodes, Greece, 19 - 21 June 2019
 - Yılmaz, M.T., Alp E., Aras M., Özaltın A. M. , Sarıcan Y., Afsar M., Bulut B., Ersoy E. N. , Karasu İ. G. , Önen A., "Assessment of Environmental Flows under Human Intervention and Climate Change Conditions in a Mediterranean Watershed", AGU Fall Meeting 2017, 11 - 15 December 2017
 - Özcan Z. , Aydinalp Köksal M., Alp E., Evaluation of Water-Energy Nexus in Sakarya River Basin, Turkey, Second WaterEnergyNexus Conference, Salerno, Italy, 14 - 17 November 2018
 - Özcan C., Kentel Erdoğan, E., Alp, E., Assessment of Hydromorphological Characteristics in Sakarya Watershed, Turkey, 13th International Conference on Hydroinformatics, 1 - 06 July 2018
 - Bahçelioğlu, E., Buğdaycı, E.S., Doğan, N.B., Şimşek, N., Kaya, S.Ö. and Alp., E., 2017, Sustainable Campus Initiatives through Integrated Solid Waste Management in METU Campus, Turkey, 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), October 4-8 2017, Dubrovnik, Croatia
 - Nur Cakır, Emre Alp, Ülkü Yetiş, Cross-media Effect and Financial Analysis of Best Available Techniques for an Integrated Iron and Steel Plant, 2016, 2nd SDEWES SEE Conference on Sustainable Development of Energy, Water and Environment Systems to be held from June 15 -18, 2016 ,Piran/Portorož, Slovenia
 - Zeynep Özcan, Aynur Hatipoğlu, Oğuz Başkan, H. Şebnem Düzgün, Elçin Kentel, Emre Alp, "Integrated Watershed Management for Lake Mogan with the focus of Agricultural Diffuse Pollution", WEFTEC 2015, The Water Quality Event, The Water Environment Federation, September 26 – 30, 2015, Chicago, Illinois, USA
 - Zeynep Özcan, Elçin Kentel, Emre Alp, "Determination of nutrient loads in Mogan watershed through modelling approach", 17th IWA International Conference on Diffuse Pollution and Eutrophication, 13–18 September 2015, Berlin, Germany
 - Melike Kiraz and Emre Alp, "Water Quality Assessment of a Shallow Lake in a Specially Protected Area: Lake Mogan, Ankara, Turkey", IWA Balkan Young Water Professionals 2015, 10-12 May 2015, Thessaloniki, Greece
 - Gizem Gül Topal, H. Şebnem Düzgün, Sinan Turhan Erdoğan, Elçin Kentel, Emre Alp,

- “Sustainable Stormwater Management on METU Campus, Ankara, Turkey”, Smart and Sustainable Campuses Conference, March 30-31, 2015, Baltimore, University of Maryland, USA
- Ulku Yetis, Nur Cakir, Gulnur Maden, Emre Alp, Filiz B. Dilek, “Modern Practices in the Management of Waste From Iron-And-Steel Industry”, 14th International Symposium on Advanced Materials, 12-16 October 2015, National Center for Physics, Quaid-e Azam University, Islamabad, Pakistan
 - Yücel, Ö., Özcan,Z., Alp, E., “Prediction of Water Quality Parameters Using Statistical Methods: A Case Study in a Specially Protected Area, Ankara, Turkey”, AGU Fall Meeting, San Francisco, 15-19 December, 2014,
 - Özcan, Z., Yücel, Ö., Alp, E., “Phosphorus Budget For Lake Mogan, Ankara, Turkey”, 8th Shallow Lakes Conference, Antalya, 12-17 October, 2014
 - M. N. Aksoy, B. Koçer, E.Alp, “Water Utility Management Strategies in Turkey: The current situation and the challenges”, AGU Fall Meeting, San Francisco, USA, 9-13 December 2013
 - Emre Alp, "Non-Market Valuation of the Environment in the Context of the European Union Water Framework Directive: Challenges in Turkey", 6th International Perspective on Water Resources & the Environment conference (IPWE 2013), Proceedings CD ROM, 7-9 January, 2013, İzmir, Turkey
 - Ö. Can, E. Alp and A.C. Yalçiner, Coastal Management to Improve Environmental Quality in Göcek Bay, Turkey, ASCE-EWRI World Environmental and Water Resources Congress 2012: Crossing Boundaries, Albuquerque New Mexico, USA, Proceedings CD ROM, 18-24 May 2012,
 - N. Çakır, G. Ölmez, T. Karanfil, E. Alp, Ü.Yetiş, Hazardous Waste Generation From Integrated Iron and Steel Production in Turkey - Evaluation Of Cleaner Production Options, Proceedings of the International Iron and Steel Symposium, 02-04 April 2012, Karabük, Turkey
 - Çalicioğlu, O., Hepgüneş, E., Firat, M., and Alp, E., Public perception and willingness to pay analysis for the improved water quality in Ankara, Turkey, Proceedings of the 12th International Conference on Environmental Science and Technology (CEST2011) , 8 - 10 September 2011, Rhodes island, Greece
 - Çakır, N., Ölmez, G., Cagin T.V., Karanfil, T., Alp, E. and Yetiş, Ü., “Cleaner Production Practices in Iron and Steel Production – A Case Study”, Proceedings of the 3rd International CEMEPE & SECOTOX Conference, Skiathos, Greece, June 19-24, 2011, ISBN 978-960-6865-43-5
 - Horasanlı, E. and Alp, E., “Economic Benefits of Renewable Energy Sources: Willingness to pay for Geothermal Energy in Yozgat Province, Turkey”, 2010 Watershed Management Conference: "Innovations in Watershed Management Under Land Use and Climate Change", American Society of Civil Engineers (ASCE) , Environmental & Water Resources, Institute (EWRI), Madison, Wisconsin, USA, Proceedings CD ROM, August 23-27, 2010
 - Cizmeli, A., Alp, E., Duzgun, S., Orek, H., and Yalciner, A., “Monitoring and Control of Human Effects on the Water Quality in Special Environment Protection Areas (SEPA), Fethiye-Gocek Measurements in Turkey”, Geophysical Research Abstracts, Vol. 12, EGU2010-10335-1, 2010, Poster Presentation, European Geosciences Union (AGU) General Assembly 2010, Vienna, Austria, 02 – 07 May 2010,
 - Yiğit, C., Maden, G., Dişa, N., Yılmaz, Ö., Alp, E., Ünlü, K., Gökçay, C.F., Dilek, F.B., Doğan, Ö., Karanfil, T., Yetiş Ü., “Comparison between EU and Turkish Legislation on Hazardous Waste Management- Reporting Requirements”, Denizli., ULE 2009, International Workshop on Urbanization, Land Use, Land Degradation and Environment, Proceedings CD ROM, Pamukkale University, Turkey, September 28 -

Oct 1, 2009

- Alp, E., Yetiş, Ü., “Application of the Contingent Valuation Method in A Developing Country: A Case Study of the Yusufeli Dam in Northeast Turkey”, 2nd International Conference on Water Economics, Statistics, and Finance, Proceedings CD-ROM, Alexandroupolis-Thrace, Greece, 3-5 July 2009
- Emre Alp, Charles S. Melching, and Richard Lanyon, “Flow Augmentation for Dissolved Oxygen Improvement in Chicago Waterways”, World Environmental and Water Resources Congress 2009, ASCE-EWRI, Proceedings CD-ROM, Kansas City, MO, May 17-21, 2009
- Charles S. Melching and Emre Alp, “Evaluation of Methods to Reduce Backflows from the Chicago Waterway System to Lake Michigan” , Proceedings CD-ROM, World Environmental and Water Resources Congress 2009, ASCE-EWRI, Kansas City, MO, May 17-21, 2009
- Zhang, H., Bernstein, D., Kozak, J., Jain, J.S., Lanyon, R., Alp, E., and Melching, C.S., “Evaluation of Eliminating Gravity CSOs on Water Quality of the Chicago Waterway System Using an Unsteady Flow Water Quality Model,” Proceedings CD-ROM, WEFTEC 07, San Diego, CA, October 13-17, 2007, p. 5722-5735.
- Alp, E., Melching, C.S., Zhang, H., and Lanyon, R., 2006, “Effectiveness of Combined Sewer Overflow Treatment for Dissolved Oxygen Improvement in the Chicago Waterways,” Proceedings CD-ROM, IWA 10th International Specialized Conference on Diffuse Pollution and Sustainable Basin Management (DipCon 2006), September 18-22, 2006, Istanbul, Turkey, International Water Association
- Melching, C.S., Alp, E., Shrestha, R.L., and Lanyon, R., 2004, “Simulation of Water Quality During Unsteady Flow in the Chicago Waterway System,” Proceedings CD-ROM, Watershed 2004, July 11-14, 2004, Dearborn, Michigan, Water Environment Federation.
- Alp, E., Clark, D., Griffin, R., Novotny, V., 2002, “The Application of Benefit Transfer in a Wisconsin Watershed,” Proceedings CD-ROM, International Conference on Policy Modeling (EcoMod) 2002, July 4-6, 2002, Brussels, Belgium, EcoMod Net, Global Economic Modeling Network
- Alp, E., Yetiş, Ü., 2000, “Non-Market Valuation of Environmental Damage: A Case Study on Yusufeli Dam and Hydroelectric Power Plant”, Poster Presentation, 1st World Congress of the International Water Association (IWA), 3-7 July 2000, Paris, France

PUBLICATIONS IN NATIONAL CONFERENCE PROCEEDINGS

- Kiraz, M. and Alp, E., 2017, Orta Doğu Teknik Üniversitesinde Su-Enerji Bağı: Zorluklar ve İmkanlar, 12. Ulusal Çevre Mühendisliği Kongresi, 5-7 Ekim 2017, ODTÜ, Ankara
- Bahçelioğlu, E., Buğdaycı, E.S., Doğan, N.B., Şimşek, N., Kaya, S.Ö. and Alp, E., 2017, ODTÜ Yerleşkesinde Entegre Kati Atık Yönetimi İle Sürdürülebilir Kampüs Girişimleri, 12. Ulusal Çevre Mühendisliği Kongresi, 5-7 Ekim 2017, ODTÜ, Ankara
- Nuray Ayten, Emre Alp and Cumali Kınacı, 2015, “Sektörel Su Tahsisinin Esasları ve Uygulamalar”, Yöneylem Araştırması ve Endüstri Mühendisliği (YAEM) 35. Ulusal Kongresi, Doğal Kaynakların Yönetiminde Yöneylem Araştırması ve Endüstri Mühendisliği, ODTÜ, Ankara 9-11 Eylül 2015,
- Ülkü Yetiş, Tanju Karanfil, Emre Alp, Filiz B. Dilek, Zehra S. Can, Ismail Toröz, Salim Öncel, Özgür Doğan, “Teorik Atık Envanteri Geliştirilmesi –Tehlikeli Atık Yönetim Sistemlerinde Kullanımı, Türk Alman Katı Atık Günleri- TAKAG’2015, Düzenleyiciler:

Dokuz Eylül Üniversitesi, Stuttgart Üniversitesi, Ege Üniversitesi ve Akdeniz Üniversitesi, 26-29 Mayıs 2015

- E. Alp, S. Bakkaloğlu, Ç. Yiğit, G. Ölmez, N.Çakır, Ö.Yılmaz, A. Nuray, B. Doğru, C.F. Gökçay, K. Ünlü, F.B. Dilek, T. Karanfil, Ü.Yetiş, "Tehlikeli Atık Beyan Sistemi - İstatistiksel Yöntemler İle Atık Kontrol Mekanizmalarının Geliştirilmesi", İTÜ XIII. Endüstriyel Kirlenme Kontrolü Sempozyumu EKK'12 17-19 Ekim 2012 İTÜ, Süleyman Demirel Kültür Merkezi, Maslak, İstanbul, A.1.4.1- A.1.4.7
- Alp, E., Ergüder, T.H., Kaymak, B., "Çevre Mühendisliği Eğitiminde Akreditasyon", 2011, TMMOB Çevre Mühendisleri Odası "Çevre Mühendisliği Eğitimi ve Meslek Alanındaki Gelişmeler Çalıştayı", 25-26 Mart 2011, Antalya

TECHNICAL REPORTS

- Alp, E. and Melching, C.S., 2008, "Evaluation of Procedures to Prevent Flow Reversals to Lake Michigan from the Chicago Waterway System", Technical Report 19, Institute of Urban Environmental Risk Management, Marquette University, Milwaukee, WI
- Alp, E. and Melching, C.S., 2006, "Calibration of a Model for Simulation of Water Quality During Unsteady Flow in The Chicago Waterway System and Application to Evaluate Use Attainability Analysis Remedial Actions", Technical Report 18, Institute of Urban Environmental Risk Management, Marquette University, Milwaukee, WI
- Alp, E. and Melching, C.S., 2004, "Preliminary Calibration of a Model for Simulation Water Quality During Unsteady Flow in the Chicago Waterway System and Application to Proposed Changes to Navigation Make-Up Diversion Procedures", Technical Report 15, Institute of Urban Environmental Risk Management, Marquette University, Milwaukee, WI
- Alp, E., Clark, D., Melching, C.S., Novotny, V., 2002, "Application of Benefit Transfer with Contingent Valuation Method to the Root River Watershed," Technical Report 12, Institute of Urban Environmental Risk Management, Marquette University, Milwaukee, WI
- Alp, E., Shrestha, R.L., Novotny, V., 2001, "Hydrologic Impact of Urbanization on the Root River flow in Racine, Technical Report 9, Institute of Urban Environmental Risk Management, Marquette University, Milwaukee, WI