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PERSONNAL

Place of Birth :Ankara
Date of Birth :15.3.1964

EDUCATION

Lycée :Saint-Joseph, French High School, 1982
B.Sc. :Environmental Engineering, Istanbul Technical University, 1986
M.Sc. : Environmental Engineering, Istanbul Technical University, 1989
Ph.D. :Environmental Engineering, University of Pittsburgh, USA, 1995

CAREER

2008- :Professor
Boğaziçi University, Institute of Environmental Sciences

2005- 2014 :Vice Director
Boğaziçi University, Institute of Environmental Sciences

2002-2008 :Associate Professor
Boğaziçi University, Institute of Environmental Sciences

1997-2002 :Vice-Director and Assistant Professor
Boğaziçi University, Institute of Environmental Sciences

1995-1996 :Postgraduate Research Associate
Ground-Water Remediation Technologies Analysis Center
(GWR TAC), Pittsburgh, USA.

1993-1995 :Research Assistant
University of Pittsburgh, USA

1992-1993 :Teaching Assistant
University of Pittsburgh, USA

1986-1990 :Researcher
TUBİTAK MAM, Environmental Research Group.

1987-1988 :Visiting Researcher
Water Research Center, Stevenage,UK.

FIELDS OF EXPERTISE

- Solid Waste Management
- Waste to Energy: biogas and renewable energy
- Landfill Design and Operation
- Leachate Treatment
- Composting
- Environmental Impact Assessment
- Soil/Groundwater Remediation

MAJOR PROJECTS INVOLVED

*Biotechnological approach for recovery of rare earth elements and precious metals from e-waste – (BIOREES), INTEN-C Intensified Cooperation (IntenC): Promotion of German-Turkish Higher Education Research, BU **Project Leader**, 2014-*

*The Behavior of Nanoparticules in Landfills, Bogazici University BAP 13Y00P5, **Project Manager**, 2013-*

*Nanoparticules in Conventional and Bioreactor Landfills, TÜBİTAK 112Y322, **Project Co-Manager**, 2013-*

*COST Action ES1205: Engineered Nanomaterials, **Project Co-Coordinator and Substitute Member of Management Committee**, 2013-*

*Recovery of Energy from Market Wastes, Boğaziçi University, 6355 P, **Project Manager**, 2011*

*Management of Domestic-Urban Wastewater Sludge, 108G190 TÜBİTAK-KAMAG, **Project Expert**, 2010-2013*

*Municipal Waste Characterization and Management for Şişli Municipality, **Project Manager** 2010*

*Feasibiity Study for Chicken Manure to Biogas Project, Ciner group, **Project Manager**, 2009*

*Renewable Energy Networks between Turkish & European Universities (RENET), EU Project Number TR0604.01- 03 / 079, **Project Vice-Coordinator and Member of Management Committee**, 2008 – 2009*

*Investigation of the Most Suitable Energy Crop for Biogas Production Boğaziçi University, O7HY 102 D, **Project Manager**, 2007-2008*

*COST Action 639: Greenhouse gas budget of soils under changing climate and land use (BurnOut), **Project Coordinator and member of Management Committee**, 2007- 2009*

AFFILIATIONS:

- International Water Association, IWA
- Association of Environmental Engineering and Science Professors, AEESP
- University of Pittsburgh- Alumni and Representative of Turkey
- Turkish National Solid Waste Committee
- French Turkish Engineering Association
- The Society of Environmental Toxicology and Chemistry, SETAC

SELECTED PUBLICATIONS

Gizem Alkanok, Burak Demirel , Turgut T. Onay., “Determination of biogas generation potential as a renewable energy source from supermarket wastes”, *Waste Management*, 134-140, (2014).

Burak Demirel a , Murat Örok , Elif Hot , Selin Erkişi , Metin Albükrek, Turgut T. Onay., “Recovery of biogas as a source of renewable energy from ice-cream production residues and wastewater”, *Environmental Technology*, 2099-2104, (2013).

Hasan Volkan Oral, Mert Guney, Mehmet Ali Kucuker, Turgut T. Onay , Nadim K. Copty, Baris Mater, Orhan Yenigun., “The impact of hazelnuts in land-use changes on soil carbon and in situ soil respiration Dynamics”, *Journal of Environmental Management*, 341-349, (2013).

Burak Demirel, Pınar Göl, Turgut T. Onay., “Evaluation of heavy metal content in digestate from batch anaerobic co-digestion of sunflower hulls and poultry manure”, *J. Mater Cycles Waste Manag*, 15, 242-246, (2013).

Erses A.S., Oral H.V., Onay T.T.and Yenigün O.,, "A study on olive oil mill wastewater management in Turkey: A questionnaire and experimental approach", *Resources, Conservation and Recycling*, 60: 64-71, (2012).

Wurz A., Kuchta K. and Onay T.T.” Review on municipal sewage sludge management in Turkey and Europe ”, *International Journal of Global Warming* , 3, 1-2, 116-128, (2011).

Guney M., Zagury GJ., Dogan N. and Onay T.T.,” Exposure assessment and risk characterization from trace elements following soil ingestion by children exposed to playgrounds, parks and picnic areas”, *Journal of Hazardous Materials*, 182, 1-3, 656-664, (2010).

Onay T.T., Copty N.C., Demirel B. and Bacioğlu A., “Impact of food waste fraction in municipal solid waste on sorption of heavy metals”, *Waste Management & Research*, 28, 936-943, (2010).

Demirel B, Scherer P, Yenigun O, Onay TT, "Production of methane and hydrogen from biomass through conventional and high-rate anaerobic digestion processes", *Critical Reviews in Environmental Science and Technology*, 40, 2, 116-146, (2010)

Mert Guney • Turgut T. Onay • Nadim K. Copty, "Impact of overland traffic on heavy metal levels in highway dust and soils of Istanbul, Turkey", *Environ Monit Assess*, 164:101–110, (2010)

Erses AS, Onay TT, Yenigün O, "Comparison of aerobic and anaerobic degradation of municipal solid waste in bioreactor landfills.", *Bioresource Technology*, 99, 13, 5418-5426, (2008)

Erses AS, Fazal MA, Onay TT, Craig WH, "Determination of solid waste sorption capacity for selected heavy metals in landfills", *Journal of Hazardous Materials*, 121, No:1-3, 223-232, (2005)

Demirel B, Yenigun O, Onay TT, "Anaerobic treatment of dairy wastewaters: a review ", *Process Biochemistry*, 40, No:8, 2583-2595, (2005)

Çinar, S., Onay, T.T. and Erdinçler, A. Codisposal Alternatives of Various Municipal Wastewater Treatment-Plant Sludges with Refuse, *Advances in Environmental Research*, 8, 477-482, (2004).

Copty, N.K., Ergene, D., Onay T.T. Stochastic Model for Landfill Gas Transport and Energy Recovery, *Journal of Environmental Engineering-ASCE*, 130, No: 9, 1042-1049, (2004).

Erses S. T.T. Onay, "In Situ Heavy Metal Attenuation in Landfills under Methanogenic Conditions" *J. Hazard. Mater.* B99, 159-175, (2003).

Erses S. T.T. Onay, "Accelerated Landfill Waste Decomposition by External Leachate Recirculation from an Old Landfill Cell" *Wat. Sci.Technol*, 47, No. 12, 215-222 , (2003).

Şan, I. ve T.T. Onay, "Impact of Various Leachate Recirculation Regimes on Municipal Solid Waste Degradation", *J. Hazard. Mater.* B87, 259-271, (2001).

Onay, T.T. and Pohland, F.G., "Nitrogen and Sulfate Attenuation in Simulated Landfill Bioreactors", *Water Science and Technology*, 44, No: 2-3, 367-372, 2001.

Erdinçler A., Köseoglu, S., and Onay, T.T. "The Role of Blending in Polymer Conditioning of Waste Activated Sludge", *Water Science and Technology*, 44, No: 6, 63-66, 2001.

Güleç, S.B., T.T. Onay ve A. Erdinçler, "Determination of the Remaining Stabilization Potential of Landfilled Solid Waste by Sludge Addition", *Water Sci. and Technol*, 42, 269-276, (2000).

Onay, T.T. ve F.G. Pohland, "In Situ Nitrogen Management in Controlled Landfills", *Water Res.*, 32, 1383-1392 (1998).

Onay, T.T. ve İ.E. Gönenç, "An Application of Sludge Conditioning and Dewatering Technique: A Case Study", *J. Environ. Sci. Health*, A33, 3, 461-476 (1997).