

# SEMINAR ANNOUNCEMENT

## MARMARA UNIVERSITY

### ENVIRONMENTAL ENGINEERING DEPARTMENT

**Gökçe Kor Bıçakçı**

**Istanbul Technical University, Environmental Engineering Department**

Gokce Kor Bicakci received her B.Sc. degree from Environmental Engineering with honor degree from Marmara University in 2009. She received her M.Sc. in the field of Environmental Biotechnology from ITU in 2012. Her master studies were about fate and effects of antibiotics in activated sludge systems. She is working as Research Assistant at ITU since 2012 and expected to earn her Ph.D. degree in June 2018. She is working on effect of thermal pretreatment on transformation of micropollutants during anaerobic sludge digestion.



She was awarded with “International Research Fellowship Program” grant by TUBITAK in 2015 and carried out her project abroad in Canada. She joined UBC Bioreactor Technology Group at the University of British Columbia to conduct laboratory and research activities as part of scholarship. Recently, she has received the “GWP Award 2017”, which was organized by the German Water Partnership to support young experts in the field of water and wastewater.

## **Effect of Microwave Pretreatment on Removal of Triclosan during Anaerobic Sludge Digestion and Biosolids Quality for Land Application**

Agricultural use of biosolids is known as the most sustainable and cheapest disposal option. However, the presence of “emerging micropollutants” is creating a critical environmental and health risks against the beneficial reuse of biosolids. In her presentation, the effect of different microwave pretreatment scenarios on the removal of the ubiquitous triclosan during anaerobic digestion of municipal sludge will be discussed. The antimicrobial triclosan is commonly found in soaps and disinfectants that end up in wastewater treatment plants. Performance of digesters will be also discussed for the optimization of renewable energy and cleaner fertilizer for land application.



**Wednesday, March 14, 2018 • 13:00-14:00**

**Engineering Building - B, Prof. Dr. Ayhan Mergen Conference Room #MB144**