



Seminars in Biotechnology BTEC 592 & BTEC 692

“Polar Research and Climate Change”

Thursday, March 11, 2021
13:30

Assoc. Prof. Dr. Burcu OZSOY
Istanbul Technical University / TÜBİTAK MAM Polar
Research Institute



Assoc. Prof. Burcu Ozsoy was born in Gaziantep, Turkey. After completing her high school education, she received her undergraduate and graduate degrees from Yıldız Technical University, Department of Geodesy and Photogrammetry Engineering. She started to work as a lecturer at Istanbul Technical University Maritime Faculty in 2001 and started her doctoral degree at University of Texas at San Antonio (UTSA) in 2005. Ozsoy shaped her studies on satellite technology, especially with statistical mathematics and geophysics. By doing her doctorate on the subject of tracking the sea ice surrounding Antarctic continent with satellite images, she had the opportunity to work on the same platforms with many national and international competent scientists working on the same subject in the United States, one of which is the NASA Goddard Space Flight Center. Within the framework of her doctorate, she participated her first Antarctic Science Expedition with US American and Swedish scientists in 2006-2007. During this expedition, she collected terrestrial/in-situ data on sea ice, verified satellite images and also worked on the interaction of sea ice-climate change in Antarctica. Ozsoy has been in the charge of Horizon 2020 Project, worked on Arctic and Antarctic regions, which has total budget 3 million Euros conducted by European countries, as the principal investigator of Turkey in 2015. She was the founding director of the Polar Research Center (PolReC), which was established in Istanbul Technical University in January 2015, until December 2019. PolReC, is Turkey's first and was the only polar research center within the period of 4 years, coordinated national and international scientific collaborations, as well as the Turkish Science Base project in Antarctica under auspices of Presidency of Turkey, served as national umbrella to conduct polar science program strategy. Assoc. Dr. Burcu Ozsoy, led the first, second and third National Antarctic Science Expeditions held in 2017, 2018, 2019 within the framework of the "Antarctic Turkish Science Base project" under the auspices of the Presidency, the responsibility of the Ministry of Industry and Technology, the coordination of PolReC, She was the expedition leader of the first Turkish Arctic Science Expedition, which was held in July 2019. She gave expert opinion to the special report published by the Intergovernmental Panel for Climate Change (IPCC), covering the regions of the ocean and the cryosphere (ice surfaces, glaciers, sea ice and permafrost).

Ozsoy is the director of the TÜBİTAK Marmara Research Center (MAM) Polar Research Institute, which was established on December 03, 2019, and the Vice President of TÜBİTAK MAM. Ozsoy coordinated the Fourth National Antarctic Science Expedition in 2020, was elected to the 2020 Newton Fund Awards scientific committee, is being a member of the Scientific Steering Committee of the Southern Ocean Observation System.

She received the Polar Studies award at 2020 Turkish Academy of Sciences (TÜBA) Young Scientist Awards Program.