

Obituary Prof. Dr. Ercan Özcan

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Ercan Özcan in the field in Thrace in 2007

Prof. Ercan Özcan, an internationally well-known Turkish micropaleontologist and a long-standing member of the editorial board of the Turkish Journal of Earth Sciences died in İstanbul on 15th December 2022 at the age 61. Ercan Özcan was born in 1961 and graduated from the Department of Geological Engineering of the Middle East Technical University in 1985. He completed his MSc thesis in the same department in 1986 and his PhD in 1994 under the supervision of Demir Altiner. His PhD thesis was on the stratigraphy and micropaleontology of the Upper Cretaceous sequence of the Arabian Platform in the Adıyaman-Kahta region in southeast Anatolia. Ercan Özcan worked in the geology departments of the Niğde University between 1995 and 2000 and of the

Akdeniz University (Antalya) between 2000 and 2004 as assistant and associate professor. In 2004, he transferred to İstanbul Technical University, where he worked as associate and full professor until his death in 2022. He left behind his wife Güliz and his son Ata.

Throughout his academic career, Ercan Özcan studied the paleontology and biostratigraphy of the Cretaceous and Cenozoic large benthic foraminifera, particularly orthofragmines, a group of Late Paleocene-Eocene foraminifera, and became an internationally recognized expert in this field. Together with György Less, they developed morphometric-statistical methods instead of typology for the characterization of orthofragmines (Özcan et al., 2007a, b; Less et al., 2007), which allows

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for a more precise biostratigraphy. This method requires preparation of oriented thin sections from individual foraminifera. Ercan was infamous for spending hours in an outcrop collecting individual foraminifera, sometimes scraping them from hard rock with a nail, and then spending more hours in the laboratory producing numerous oriented thin sections for statistical analysis.

Ercan's studies were not restricted only to Turkey but in pursuit of his research interests, he worked in the field in Tunisia, India, Pakistan, Oman, and Jamaica. Just before his death, he published an important atlas on the Tethyan orthophragmines (Özcan et al., 2022). Up until a few days before his death, he was working on an atlas of Tethyan Oligo-Miocene large benthic foraminifera.

Ercan Özcan's studies covered the whole of Turkey. He worked in the Cretaceous of the Arabian Platform in southeast Anatolia (Özcan, 1993, 1994, 1995), in the Late Cretaceous-Cenozoic stratigraphy and paleontology of the Central Anatolian basins (Özcan and Özkan-Altiner, 1997; Özcan et al., 2001, 2020a; Özcan, 2002; Çolakoğlu and Özcan, 2003; Okay et al., 2020; Yücel et al., 2023), in the Taurides (Özcan et al., 2009, 2019a; Rodelli et al., 2018), in the Pontides (Özcan et al., 2012, 2019b, 2020; Erdem et al., 2021) and in the Eastern Anatolia (Özcan et al., 2010a). Probably his most important geological study was on the biostratigraphy of the hydro-carbon-bearing Cenozoic Thrace Basin. Although there were many previous studies on the Thrace Basin, its biostratigraphy was poorly constrained. A solid biostratigraphic frame for the Thrace Basin was established based largely on the large benthic foraminifera (Özcan et al., 2010, 2018a; Okay et al., 2010; Less et al., 2011; Yücel 2020). Ercan Özcan's studies also extended outside Turkey; he worked and published on the biostratigraphy and paleontology of the Cretaceous-Cenozoic sequences in Egypt (Özcan

et al., 2014), in Oman (Özcan et al., 2016a, 2019c, 2022; Abbasi et al., 2022), in Tunisia (Ben İsmail-Lattrache et al., 2014), in the Pakistan and India Himalayas (Özcan et al., 2015, 2016b,c, 2018b,c, 2019c,d; Malarkodi et al., 2017; Ali et al., 2018; Less et al., 2018; Pereira et al., 2022) and in the Caribbean (Özcan et al., 2019e, Mitchell et al., 2022). He was truly an international expert on the Cretaceous-Cenozoic large benthic foraminifera.

His crowning achievement was the publication of Atlas of Tethyan orthophragmines with his students in the year of his death (Özcan et al., 2022). The Atlas is based on enormous material collected over 15 years throughout the World; it contains characterization of both families (Discocyclinidae and Orbitoclypeidae), of their five genera, 61 species, 25 of them constituting evolutionary lineages with 92 chronosubspecies. It provides basic knowledge on the morphostructure, principles of taxonomy, systematics, phylogeny, biostratigraphy, and paleobiogeography of Tethyan orthophragmines, and is illustrated with large number of high-quality photos and drawings.

Ercan Özcan was dedicated to his work and spent freely his time and money in pursuit of his research interests¹. In 2018, he was struck by cancer and underwent heavy doses of chemotherapy, but he was still working in the hospital on manuscripts; after a remission, the cancer came back in 2022. During those difficult years, he went to the field whenever he had the opportunity, and in 2022, the year of his death, he published seven international papers.

As a person, Ercan was hard-working, productive, candid, generous, and had a good sense of humor; it was great fun to be with him in the field. He has left a big void among his colleagues and friends.

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¹ In 2002, Aral Okay was working in the southern Thrace Basin and had found a few localities with large benthic foraminifera. Ercan, who was in Antalya at that time, asked Aral about these localities, and travelled 800 km in the autumn of 2002 with his car to Şarköy in southern Thrace to collect foraminifera. Very few scientists in Turkey would spend their own money and free time for their research interests.

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