

Forensic Geosciences: Multivocation at the service of Society

Geosciences represent a comprehensive concept applied to sciences related to the study of planet Earth. Professionals in the field have vast knowledge involving numerous disciplines. Forensic Science is understood as the set of scientific and technical knowledge, used to unravel not only crimes, but also various legal matters (civil, criminal or administrative). It is considered an interdisciplinary area because it involves Physics, Chemistry, Biology, among others. Forensic scientists collect, preserve and analyze scientific evidence during the course of an investigation. Thus, the Forensic Geosciences constitutes an important scientifically based search and at the service of society as well as for decision making. Some case studies will be presented, such as: a) research related to the monitoring of coastal areas in "Todos os Santos Bay" (Baía de Todos os Santos), Bahia, Brazil, impacted by oil; b) application of analytical techniques aimed at petroleum geochemistry necessary to identify the type and origin of the oily material collected on beaches in the Brazilian Northeast, in 2019, characterized as the largest environmental accident in the country. The development of different biotechnological processes used in the recovery of contaminated regions will also be addressed. The results reflect studies of more than two decades of investment in technological research and innovation, developed in the academy.