

Criminalistic Odorology

Abstract

This thesis is focused on the scientific field of criminalistic odorology with a focus on criminalistic olfactorics. The main topic of this thesis is to find out on what principles this scientific field works and to map its system of functioning and using in practice.

This thesis is divided into about 5 main chapters or topics that it deals with. These are the history of the development of criminal olfaction, the definition and description of criminal odour science, the theoretical basis for its use in practice such as the analysis of smell and olfaction and finally its use in practice. The last part focuses directly on the method of scent identification and its performance and use in court as evidence.

The first chapter deals with the history and development of the use of the dog by man, first as his protector, then protector of his property, companion and finally scent biodeceptor in the service of the police.

The second chapter defines what criminal odor science is and divides it into two parts, olfactorics and olfactronics, which it then describes as subjective and objective methods of examining scent.

In the third chapter he discusses smell and olfaction and their biological, physical and chemical basis.

The fourth chapter describes the use of dogs as live odour biodeceptors in police practice. First, it describes the various uses of the dog and their specifics for the detection of psychotropic and narcotic substances, explosives, weapons, fire accelerants, human remains, or its use in fresh tracking and lost person searches in the field.

The second significant part of this chapter focuses on the method of scent identification of individual human scent by the dog. It first discusses the procedure for conducting the actual comparison and collection of the odour samples or prints, and then the actual use and evaluation of the method for the purposes of a court hearing. The use of the scent identification method in the world, particularly in Europe and America, is also briefly discussed.

Overall, the thesis corresponds to the main idea of the importance of the use of olfactorics for criminalistic purposes and in criminal proceedings.

**Key Words [criminalistic olfaction, scent trail, odour
identification method]**