V CONFERENCE OF ODOURS AND VOCS IN THE ENVIRONMENT
26-27 NOVEMBER 2019, SANTIAGO, CHILE

ABSTRACT

Development of a mobile dynamic olfactometer and LIMS for odour labs

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It is common sense that an odour sample should be measured as soon as possible after sampling to avoid bearing effects or post-reactions of the sample in the bag. Often, however, sampling site and laboratory are not in the same location, so samples need to be shipped to the laboratory.

This approach involves the risk that you cannot certainly determine afterwards whether the sample still has the same concentration and/or the same character as directly after sampling. Another disadvantage is that you get the results much later and hence lose on-site flexibility.

The ideal solution is to have your own laboratory on-site and, at the same time, to fulfil all the requirements of EN 13725 as well as ISO 17025.

A purpose-designed mobile dynamic olfactometer like the new TO8 evolution olfactometer, which comes with an integrated laboratory information management system (LIMS), allows to meet these requirements.

This compact olfactometer is based on the proven principle of combining gas jet pumps and fixed sapphire orifices, keeping the size of the unit as compact as possible. The LIMS has been specifically designed for odour laboratories to support them in fulfilling essential quality management and quality control procedures. These include day-to-day laboratory processes like qualifying odour panels and keeping track of the laboratory performance, as well as managing reference gases, projects and clients. Full traceability of changes made to the LIMS database allow for stress-free audits with accreditation bodies.

Indicate preference of kind of presentation

- ¤ Poster

Indicate session in which authors propose to present their work:

- ¤ Session II. Dynamic Olfactometry and other techniques. Odour perception. Quality assurance and control.