

V CONFERENCE OF ODOURS AND VOCs IN THE ENVIRONMENT  
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ABSTRACT

**NON-STOP MONITORING AND ODOUR DETECTION WITH AN  
ELECTRONIC NOSE AND ASSOCIATED PREDICTION MODEL**

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Classical method for odours monitoring, like dynamic olfactometry, is quite expensive and time-consuming process. At same time, olfactive events are spontaneous and not predictable, so sampling should be realized in right place and right time. A non-stop monitoring and alerting using electronic nose is an alternative.

In the way to reduce time gap between odour detection and reaction of customer – modification of process, sampling or else, Rubix S&I proposes a method of real time calculation of odour impact based on correlation between preliminary dynamic olfactometric measurement and simultaneous electronic nose signal records from RUBIX S&I instrument.

E-nose sampling continuously environment and calculate odour unit (OU/m<sup>3</sup> equivalent) by using values from various integrated chemical and physical sensors: T, RH, Sound, MOS, Electro-chemical, Particle counter, PID, NDIR, etc. Customized level of OU could be selected as alarm and coupled with vacuum sampler and sms/e-mail alerting.

The results of real application will be presented.

Indicate preference of kind of presentation

- Oral Communication

Indicate session in which authors propose to present their work:

- Session IV. Electronic devices for gases and odourant detection. Odourants and VOCs monitoring techniques.