

PRESENTER:

Dr. Martin Kern

BACKGROUND

Researchers measuring odors continue to face the same problem: how to capture a specific scent, its development over time until it dissipates in such a way that consumers can evaluate, and a descriptive panel can characterize?

The use of hotel rooms, existing offices or unused rooms of a flat for such research are at best trade-offs, however there are disadvantages such as being very expen sive, not providing the required standard ization or lacking controls.

METHODS

- Central Location Test (CLT) and
 Quantitative Descriptive Analysis (QDA)
- 2. Scent Dynamics
- Assessment of isolated odor in all aspects (liking, characterization, lingering nature)
- 4. Mobile installation on demand

RESULTS

- · Simulated Rooms are easily assembled and disassembled.
- They are fully washable and residual odors are completely expelled during breaks between sessions.
- Simulated mobile rooms are used for evaluation, characterization and claim substantiation of products and applications which cannot be tested by consumers in buildings as cleaning/ disinfecting after evaluation is easily completed.
- Enabling complete range of odor measurement, e.g.fragrances, airfresheners, undesired odors, tobaccoproducts, insecticides, aerosols and their residuals of any nature, incensesticks, home-care products, etc..

Simulated Rooms – a Mobile, Ventilable and Climate Controlled System for Odor Evaluation.

Ventilation-System above the rooms



Mobile

The simulated rooms can be built-up on external free space (e.g.a patio) or integrated into an existing room or hall. Should the simulated rooms be set-up outside they are protected with an external covering in the form of a tent.





A newly developed method completely solving this complex issue is the simulated room approach, generating a closed, fully controlled and standardized environment in which all aspects of odor can be reliably assessed.



A **Key-Feature** is the professional ventilation-system:

- Smooth air flow of 1.2 air change per hour (ACH) during application and measurement.
- · Expel the scent-loaded air between measurements with 10 ACH.

Clean, Professional Adaptable!

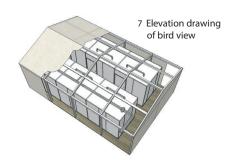
Simulated Rooms are equipped with - standard furnishings representing the environment/context to be tested.

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Capture Lingering Scents A new method to measure odors over time using simulated rooms

AUTHOR

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The execution of the simulated- room concept is very flexible, up to 6 individual rooms are set-up and grouped together based on requested test-design.

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The simulated room has a surface-area of 5 square-meters and a height of 2.5 meters resulting in 12.5 cubic meters of volume in each of the simulated rooms.

3 Measures:

