



EMRP

European Metrology Research Programme
Programme of EURAMET



The EMRP is jointly funded by the EMRP participating countries within EURAMET and the European Union

Welcome

*to the
MACPoll workshop*

“Novel (S)VOC gas standards for indoor air monitoring”



Dutch
Metrology
Institute



BAM Bundesanstalt für Materialforschung und –prüfung – Federal Institute for Materials Research and Testing

Locations



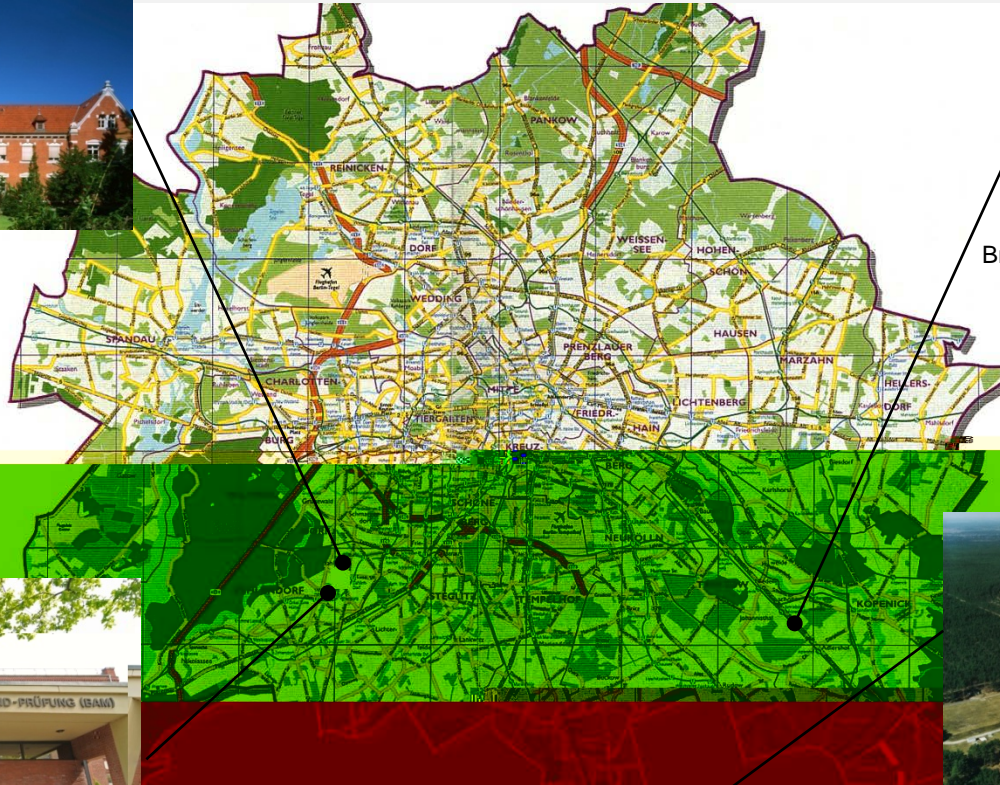
Branch Fabeckstraße



Branch Adlershof



Headquarters Lichterfelde



BAM Test Site Technical
Safety – BAM TTS

Safety in technology and chemistry

Pursuing our mission as a Federal institute for materials technology and chemical engineering, we ensure ongoing safety in technology and chemistry through

- research and development
- testing, analysis, approval and certification
- consultation, information and advice



Departments

- 1** Analytical Chemistry; Reference Materials
- 2** Chemical Safety Engineering
- 3** Containment Systems of Dangerous Goods
- 4** Materials and the Environment
- 5** Materials Engineering
- 6** Materials Protection and Surface Technologies
- 7** Safety of Structures
- 8** Non-Destructive Testing
- 9** Component Safety
- S** Quality Infrastructure

Department 4 - Materials and the Environment - Divisions

- 4.1** Biodeterioration and Reference Organisms
- 4.2** Materials and Air Pollutants
- 4.3** Contaminant Transfer and Environmental Technologies
- 4.4** Thermochemical Residues Treatment und Resource Recovery
- 4.5** Analysis of Artefacts and Cultural Assets

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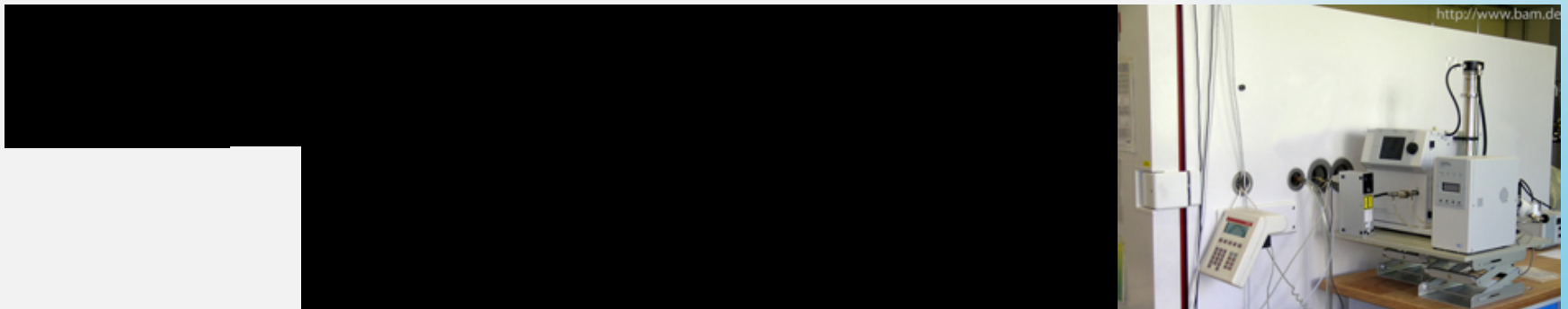
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- Analysis of volatile organic compounds (VOC), selected inorganic compounds in the air as well as particles and aerosols and their interaction



Division BAM-4.2 - Materials and Air Pollutants

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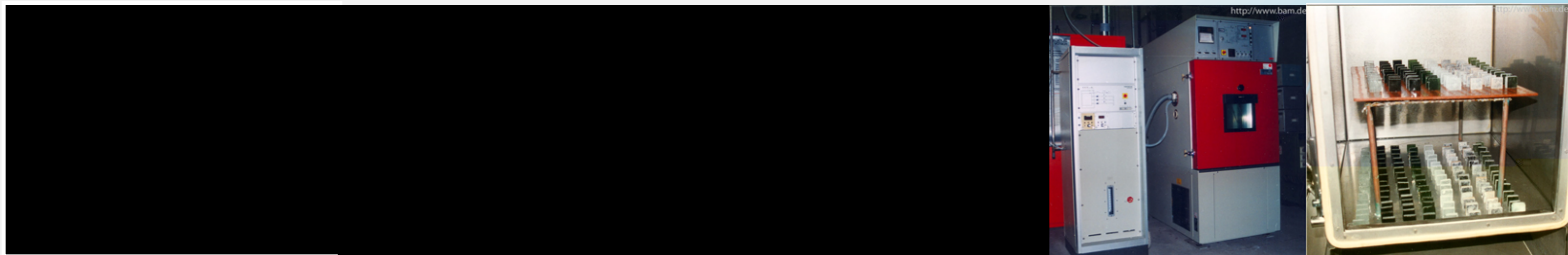
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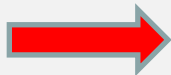
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- Reduction of emissions/immissions
- Protection against damage caused by environmental impacts



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Focus on Indoor Air Quality

Why concerning indoor air quality /emission testing of materials?

- Central European People spend 80 - 90 % of time indoors
- Materials and products are an important source for indoor air pollution
- Growing number of many different construction products, furnishings, electronic equipment and so on
- Reduction of natural air exchange due to energy conservation
- European Construction Products Regulation (CPR) 305/2011: BRCW (Basic Requirement for Construction Works) 3 - Hygiene, health and the environment (b) ... VOC...

Health complaints:

- SBS Sick Building Syndrom
- MCS Multiple Chemical Syndrome
- Headache, eye- and airway irritation
- Special exposure situation for infants, allergic, elderly and immunocompromised persons