Announcement – Summer Semester 2024

Measurement of Air Pollutants Part I

SWS: 1, LV 610800003

Dozent: Dr.-Ing. U. Vogt

Vorlesungszeit / Time:
- Monday, 3:45 p.m. – 5:15 p.m.
- Tuesday, 3:45 p.m. – 5:15 p.m.

Dates for lectures: 22.04.2024 – 02.07.2024 (weekly)

Ort / site: IFK, Pfaffenwaldring 23, Hörsaal V 23.01

Content of lectures:

Measurement tasks:
- Discontinuous and continuous measurement techniques, different requirements for emission and ambient air measurements

Measurement principles for gases:
- IR- and UV Photometer, Colorimetry, UV fluorescence, Chemiluminescence, Flame Ionisation, Potentiometry,

Measurement principle for Particulate Matter (PM):
- Gravimetry, Optical methods, Electrical methods, Particle size distribution, PM deposition, PM composition
- Assessment of measured values
- data storage and processing
- graphical presentation of data

Measurement principle for meteorological parameter:
- Temperature, humidity, radiation, pressure, wind speed and direction

Dr.-Ing. U. Vogt