ANKÜNDIGUNG

Freitag, den 25.10.2019 — 10.00 Uhr

Gebäude 52 — Hörsaal 206

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Human activities do not only change atmospheric composition by emission of greenhouse gases, which have lifetimes of years, but also via emissions of short-lived gases such as nitrogen oxides (NO\textsubscript{x}), sulfur dioxide (SO\textsubscript{2}), and reactive hydrocarbons often referred to as volatile organic compounds (VOCs). Oxidation of these compounds is directly coupled to formation of tropospheric ozone and secondary particulate matter, with significant consequences for human health, ecosystems and climate. The talk will present how human induced change affects the complex, often non-linear chemistry coupling emissions to secondary pollutants. An overview of some of the important human induced emission changes will be followed by a detailed view of how small changes in NO\textsubscript{x} emissions can result in large changes in oxidation rates and the classes of VOC oxidation products with very different properties, such as organic hydroperoxides versus carbonyls and organonitrates.

Gäste sind herzlich willkommen / Non-members are cordially invited

gez.: Prof. Dr. Dr. Gereon Niedner-Schatteburg & Prof. Dr. Antonio J. Pierik