

Donnerstag, 23.06.2022, 14.00 Uhr
Leipziger Meteorologisches Kolloquium

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**Photochemical reactions in the environment, and their
connection with climate change**

Human presence can affect the air quality in the indoor environments. The primarily emitted chemical compounds by human presence, e.g., skin lipids and volatile organic compounds (VOCs) in breath air, can react with typical indoor air oxidants, ozone (O_3), and hydroxyl radicals ($\bullet OH$), leading to secondary organic compounds released in the indoor air. These secondary organic compounds may additionally aggravate the air quality. Nevertheless, our understanding about the formation processes of secondarily formed organic compounds through reactions of indoor air oxidants with primary emitted pollutants is still incomplete. In this study, a state-of-the-art analytical technology secondary electrospray ionization high resolution mass spectrometry (SESI-HRMS) has been applied together with other online monitoring technologies to perform time-resolved measurements of VOCs as well as oxidants and oxidant precursors such as O_3 , NO, NO_2 , HONO to investigate the contribution of human presence, like skin lipid and breath VOCs, to indoor secondary organic compounds.

Zoom Meeting

<https://us02web.zoom.us/j/89549584222?pwd=tVE49eVEz53mon31qcBOCBISsqKqgc.1>

Meeting ID: 895 4958 4222

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Ort: Online