Welcome to a workshop on soot!

Black Carbon (Soot) Air Pollution – Measurement, Sources, Fate, and Regulation

AN AEROMET II HYBRID EVENT, CO-HOSTED BY RISE, THE LTH PROFILE AREA AEROSOLS, AND THE DIVISION OF ERGONOMICS AND AEROSOL TECHNOLOGY

Aerosol particles are of major concern due to their strong impact on climate and health, and soot* particles are of special concern. However, the physiochemical properties of soot vary between sources and changes during aging in the atmosphere. Additionaly, the on-going transition to renewable fuels result in soot with other properties, and thus impact on health and climate. This complicates our effort to precisely determine what BC is, how to measure it, and what to do about it. It brings about challenges to our efforts to understand and regulate soot.

*Soot is to a large extent formed by human activities in incomplete combustion of carbonaceous fuels and commonly contains both highly absorbing graphitic-like black carbon (BC) and organic carbon, often in shades of brown.

PROGRAMME

13.00 Welcome! Jenny Rissler and Stig Koust

Session 1: Soot formation impacts on health and climate

13.10 Soot formation in flames, Per-Erik Bengtsson, LTH

13.30 Health based limit values in the working environment, Ulla Vogel, The National Research Center for Work Environment (NFA), Copenhagen

13.50 BC and other emergent pollutants in the new EU Ambient Air Quality Directive, Johan Genberg, Swedish Environmental Protection Agency

14.10 Black carbon as short lived climate forcer, Erik Swietlicki, LTH

14.30 Coffee/tea

Session 2: Soot measurements

14.50 Soot measurement techniques, Axel Eriksson, LTH

15.05 Workplace soot measurements, Jakob Nis Klenø Nøjgaard, NFA, Copenhagen

15.25 Urban BC monitoring, Mårten Spanne, Environment Department, City of Malmö

15.45 Aethalometer laboratory intercomparison, Alexandre Bescond, Laboratoire National de Métrologie et d'Essais, Paris

16.05 Unified analysis of 4 recent field campaigns targeting the sensitivity of aethalometer measurements to ambient temperature and RH, Klemen Bucar, Jozef Stefan Institute, Ljubljana

16.25 Panel discussion and closing words

17.00 End of seminar

Date and time: 26th April 2023, 13.00-17.00
Place: Ingvar Kamprad Design Centre, Sölvegatan 26, Lund, Room DC:304

Register on 18th April at the latest, by sending an e-mail to lena.leveen@certec.lth.se, with info about any food allergies.

Also online!

N.B. It is also possible to participate online (no registration required): https://lu-se.zoom.us/j/67533098037

Most welcome!