



VABILO NA PREDAVANJE
V OKVIRU DOKTORSKEGA ŠTUDIJA
KEMIJSKE ZNANOSTI / INVITATION TO THE
LECTURE WITHIN DOCTORAL PROGRAMME IN
CHEMICAL SCIENCES

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z naslovom / title:

**Fine particulate matter in indoor heritage:
monitoring, modelling and mitigation**

**v sredo, 8. decembra ob 15:00 uri /
on Wednesday, 8. 12. 2021 at 15:00**

**preko spletnega orodja Zoom / via Zoom:
<https://uni-lj-si.zoom.us/j/99700200763>**

Vljudno vabljeni! / Kindly invited!

Abstract:

This presentation will explain the risks associated with Particulate matter (PM) in heritage, and demonstrate some mitigation strategies informed by heritage science research. PM is a very common indoor pollutant, which contributes to a loss of value of historic surfaces. Particulate matter deposition is associated with a diversity of conservation challenges: it reduces the aesthetic value of surfaces, it induces further cleaning, and it can even react chemically with surfaces. Unfortunately, the study of indoor PM is complicated by the wide diversity of particle sizes and compositions. Fine and ultrafine particles tend to originate from the combustion of fossil fuels (e.g. diesel particulate matter), and large particles from the attrition of other materials, such as vehicle tyres or clothes (e.g. microplastics). Recent research has shown that computational modelling can help predict indoor concentrations and define mitigation strategies.