

# Foredrag

Torsdag 2. juni 2016, kl. 18.00 i  
Auditorium 3, Kjemisk Institutt, Universitetet i Oslo

Caitlin McQueen, Emilt McHale, Fabrizio Andriulo and Susan Braovac

## The Saving Oseberg Project – Chemistry for the salvation of Viking Age wooden artefacts

The Oseberg find, under the care of the Museum of Cultural History (KHM) and on display at the Viking Ship Museum in Oslo, is one of the most comprehensive and important collections of wooden Viking Age objects in the world. Unfortunately, a large number of the wooden objects are threatened by an ongoing deterioration process, causing the wooden structure to disintegrate, resulting in extremely fragile and vulnerable artefacts. This deterioration is caused by a conservation treatment, using alum salt ( $\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ ), which was applied to the waterlogged archaeological wood after the excavation in 1904.



*Items from the Oseberg collection*



*Extreme deterioration of wood caused by alum treatment*

The development of appropriate preservation strategies is therefore underway in the research project *Saving Oseberg*. In this presentation we will discuss various aspects of this project, including the elucidation of the chemical nature of the alum-treated wood and its decay processes, the role of metal ions in the degradation, the use of alkaline nanoparticles for de-acidification, and selection and initial penetration experiments with biomimetic materials.

### Agenda:

kl. 17.00 Enkel bevertning (pizza)

kl. 18.00 Foredraget

*Alle er hjertelig velkommen*

Styret i Norsk Kjemisk Selskap, Oslo-avdelingen

PS: Foredraget vil bli holdt på engelsk

