

Univerza
v Ljubljani

Fakulteta *za kemijo*
in kemijsko tehnologijo

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

Prof. Henrik Sundén

University of Gothenburg
Department of Chemistry & Molecular Biology, Sweden

z naslovom / title:

**NHC-catalysis in organic synthesis and
materials development**

**v sredo, 3. 4. 2024 ob 15. uri /
on Wednesday, 3. 4. 2024 at 15.00**

**v predavalnici 1 v 1. nadstropju Fakultete za kemijo in
kemijsko tehnologijo, Večna pot 113 / in lecture room 1,
1st floor at the Faculty of Chemistry and Chemical
Technology, Večna pot 113**

Vljudno vabljeni! | Kindly invited!

Abstract:

In this presentation I will show how N-heterocyclic carbenes (NHCs) derived from dialkylimidazolium ionic liquids can be used as catalysts in the multi-component synthesis of oxotriphenylhexanoates (OTHOs). The OTHOs have interesting material properties as they form supramolecular gels in a number of solvents. The OTHO structure is easily derivatized which makes it possible to tailor-make the gel material with desired properties at the molecular level. Finally, I will also show that the OTHOs can be used as starting materials for the synthesis of stereochemically complex tricyclic frameworks with up to five stereogenic centers.

