

Univerza
v Ljubljani

Fakulteta *za kemijo*
in kemijsko tehnologijo

p.p. 537, Večna pot 113
1001 Ljubljana
telefon: 01 479 80 00
faks: 01 241 91 44
dekanat@fkkt.uni-lj.si



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

Prof. dr. Mario Waser

*Johannes Kepler University Linz
Institute of Organic Chemistry, Austria*

z naslovom / title:

**Chiral Onium Species for Asymmetric
Organocatalysis**

**v sredo, 18. 5. 2022 ob 15. uri /
on Wednesday, 18. 5. 2022 at 15.00**

**v predavalnici 2 v 1. nadstropju Fakultete za kemijo in
kemijsko tehnologijo, Večna pot 113 / in lecture room
2, 1st floor at the Faculty of Chemistry and Chemical
Technology, Večna pot 113**

Vljudno vabljeni! / Kindly invited!

Abstract:

Over the last years our group had a major interest in asymmetric organocatalysis involving chiral onium species. Hereby we have been focusing on two different approaches.

On the one hand we are using chiral quaternary ammonium salts as catalysts for the non-covalent activation and control of simple prochiral pronucleophiles. We hereby focus on the development of novel chiral (bifunctional) catalysts as well as on the introduction of new synthesis methods using chiral ammonium salt catalysts (e.g. asymmetric α -amino acid syntheses).

On the other hand, we more recently also became interested in using chiral Lewis base catalysts for the stereoselective activation and control of allenolates for unprecedented cyclization reactions via in situ formation of chiral onium species and in this talk I will give an overview about our recent efforts in both of these fields.