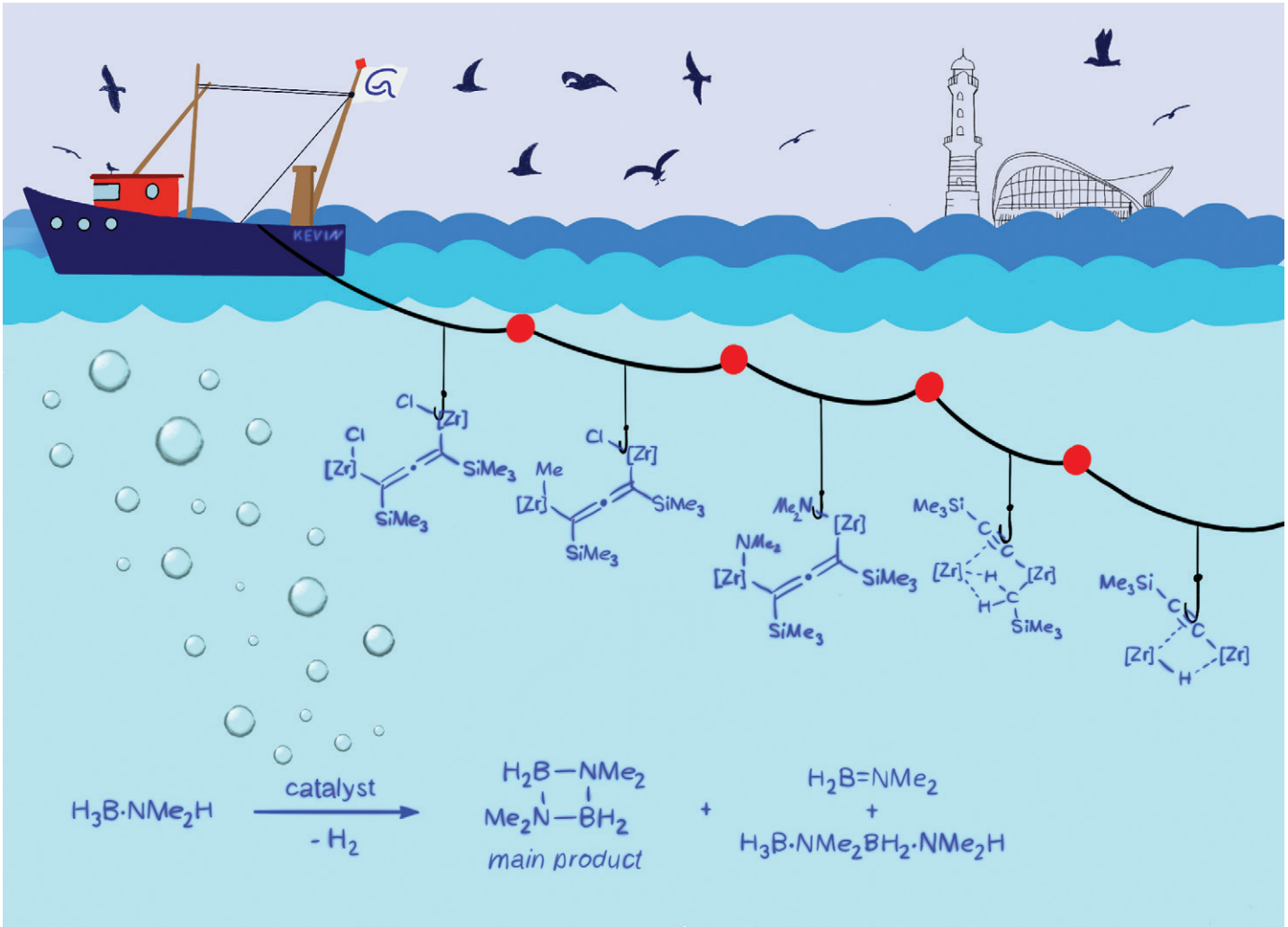

Showcasing research from the Beweries labs at the Leibniz Institute for Catalysis (LIKAT Rostock), Germany.

Mechanistic insights into dehydrocoupling of amine boranes using dinuclear zirconocene complexes

Catalytic dehydrocoupling of $H_3B{\cdot}NMe_2H$ using the in situ system $Cp_2Zr(Cl)(\mu\text{-}Me_3SiC_3SiMe_3)Zr(Cl)Cp_2$ (**1**)/MeLi was studied as a model for dehydropolymerisation of $H_3B{\cdot}NMeH_2$. Spectroscopic monitoring of the reaction as well as a series of stoichiometric experiments show the formation and interconversion of several catalytically active zirconocene species.

As featured in:

See Fabian Reiß, Torsten Beweries *et al.*, *Catal. Sci. Technol.* , 2021, **11**, 4034.

ROYAL SOCIETY OF CHEMISTRY

rsc.li/catalysis

Registered charity number: 207890