

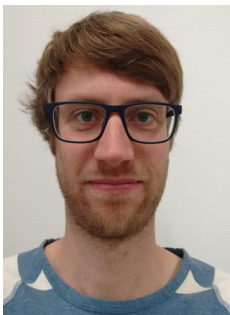
# Geowissenschaftliches Kolloquium

## *The birth and death of a mineral for every occasion*

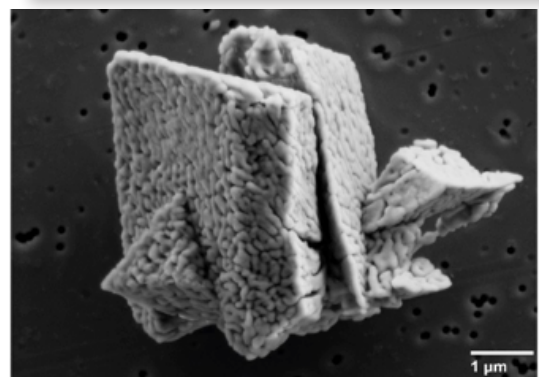
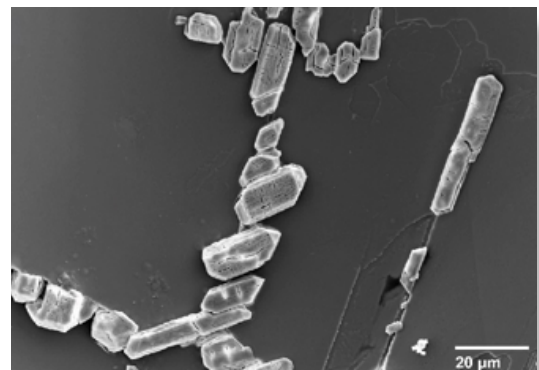
Donnerstag, 24. Mai 2018 - 16.15 Uhr

**Jörn Hövelmann**  
GFZ Potsdam

The spontaneous precipitation of struvite ( $\text{MgNH}_4\text{PO}_4 \cdot 6\text{H}_2\text{O}$ ) often causes significant concern to wastewater treatment plants due to scale formation. Controlled struvite crystallization, on the other hand, is an attractive route for phosphorus recovery because struvite is a potential slow-release fertilizer. In this talk, nanoscale insights into the nucleation, growth and breakdown of struvite will be presented. Such knowledge may provide an edge in struvite crystallization control as well as in the design of novel functional materials.



**Jörn Hövelmann** holds a B.Sc. and M.Sc. from the University of Münster and a Ph.D. from the University of Oslo. Currently, he is a Post-Doc in the Interface-Geochemistry section at GFZ Potsdam. His research focuses on the reactions that take place at mineral-aqueous interfaces, including processes such as crystal dissolution, nucleation, growth and transformation.



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