



PHD.-DEFENCE

BIOCIDES IN FAÇADE COATINGS: BUILDINGS AS SOURCE FOR URBAN WATER POLLUTION

ULLA E. BOLLMANN



During her PhD project, Ulla E. Bollmann studied the leaching of biocides from façade coatings. Biocides are added to façade coatings such as renders and paints in order to prevent algae, fungi, and bacteria growth. However, these biocides leach out of the material when the façades get in contact with rainwater and end up in the environment where they might have toxic effects on aquatic organisms.

By conducting both field studies and laboratory experiments, Ulla E. Bollmann contributed to the knowledge on the occurrence of biocides in the environment as well as the leaching processes itself. The results showed that biocides are ubiquitous in the aqueous environment and buildings are an important source for urban water pollution. By understanding the leaching process, it would be possible to estimate but also control the leaching and reduce future emissions.

The PhD degree was completed at the Department of Environmental Science, Science and Technology, Aarhus University.

Time: Friday 20.03.2015 at 10.00, followed by a light lunch reception ~12.00

Place: K1.36, AU Roskilde EAST, Dep. of Environmental Science, Aarhus University, Frederiksborgvej 399, 4000 Roskilde

Title of dissertation: *Biocide leaching from building material: Investigations of leaching as a partitioning based process and emissions into storm-, waste-, and surface waters*

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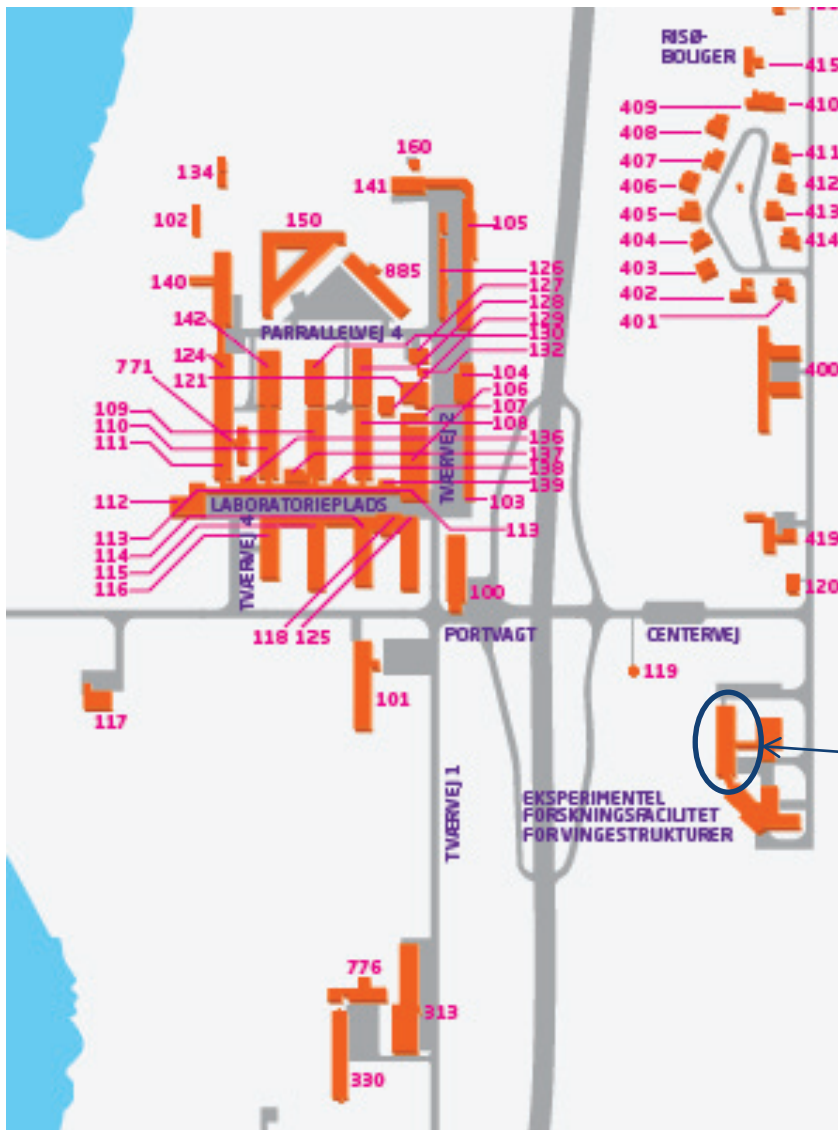
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