

CAMaR Lectures

The Centre for Advanced Materials Research is pleased to welcome **Prof. Marcus Baumann**
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Continuous Flow Chemistry From Methodology Development to Target Molecule Applications



Friday June 19th 2020

Online webinar
Time: 10 am



Abstract: This lecture will provide a brief overview on key features of continuous flow chemistry for the synthesis of drug-like organic molecules. A first section will outline continuous photoisomerization reactions generating oxazole and quinoline products using either high power LEDs or a medium-pressure Hg lamp. The feasibility of telescoping such processes will be discussed. Next, the integration of reactive distillation processes within continuous processing will be highlighted. This results in a hybrid approach that generates cyclopentadiene in situ which is then consumed to produce a set of tetrahydroquinolines. Lastly, the merits of flow chemistry are demonstrated in the synthesis of a drug building block on kg scale showcasing the need to developing a robust and sustainable route that effectively and safely delivers the target structure.

More info: <https://people.ucd.ie/marcus.baumann>

