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# CONFÉRENCE FONCER-SFC



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## “ ENABLING SYNTHESIS AND MEDICINAL CHEMISTRY WITH FLOW ”

**RÉSUMÉ :** In the Beeler Research Group we are developing new technologies and approaches to enable synthesis and medicinal chemistry. The lecture will highlight the utility of flow chemistry to develop reactions to access bioactive natural products, analogs, and fragments. Why flow chemistry? Reactions have been carried out in batch vessels for over two centuries and amazingly, the tools chemists use, have remained largely unchanged. As such, many of the challenges presented by batch reactions have are still unsolved. Issues related to mass transfer, heat transfer, or photon penetration can be exceptionally challenging in batch reactors, but can often be overcome in flow. Furthermore, reactions utilizing highly reactive or short lived intermediates can be inherently dangerous or impossible in batch, but possible in flow. Ultimately, flow chemistry provides chemists with a tool for development of new and more efficient reactions that are robust, highly scalable, and provide access to complex and novel chemotypes. This lecture will focus on utilizing flow chemistry to develop reactions that are highly challenging or even impossible in batch. Photochemical cycloadditions and reactions of reactive diazo compounds have been developed for the synthesis of bioactive natural product analogs and fragments.

- > mercredi 8 mars 2017
- > 11:00
- > Salle 1035  
Pavillon J.-Armand Bombardier

> BIENVENUE À TOUS !

UM

Faculté des arts et des sciences  
Département de chimie

Merci à nos commanditaires

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