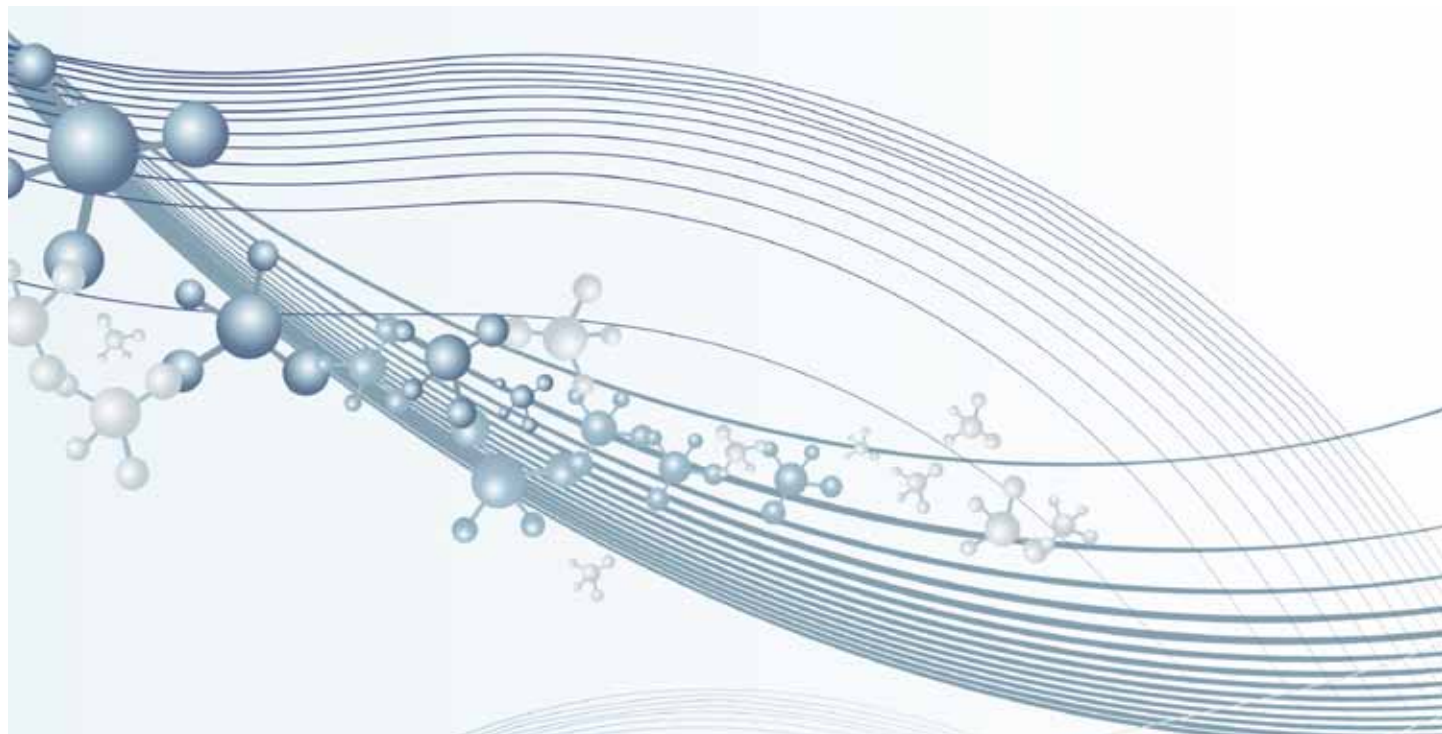


Chemistry Innovation

WEBINAR: What is the state-of-the-art in scaling up Flow Chemistry?



This webinar seeks to address: How can key compounds, identified through flow, be effectively scaled-up, to allow testing, validation and ultimately manufacture?

Why Flow chemistry?

Although Batch manufacture is a well established and extremely versatile method of manufacturing, there are clear limitations to batch processing which lead to economic and environmental issues. Continuous processing or “Flow” chemistry can be a more powerful approach that gives rapid access to more efficient and greener processes than the tradition Batch method.

Flow chemistry is not a new concept, having been used in industry for hundreds of years and is often considered the best option in the late stages of process development. Continuous processes are currently well established in low cost efficient manufacture of bulk chemicals, however the uptake for high value added products like agro chemicals, pharmaceuticals or complex home and personal care chemicals remains low and there is huge opportunity here.

Recent developments in technology and understanding of “Flow chemistry” have given synthetic chemists access to mini and micro flow reactors and routine ability to access compounds on 1-100 mg scale. Many chemical transformations have now been successfully demonstrated on this scale and with the availability of larger coils can now be readily scaled to 1-100 g.

The size of the opportunity here cannot be understated as current “Flow” technology gives chemists, from all sectors, the ability to investigate and significantly expand the chemical space in their area of interest.

The webinar

The aims of this webinar are:

- To discuss different scale up paths (e.g. bespoke, modular, hybrid batch-continuous processing etc) & review their suitability for a range of sectors and business model
- To arrive at a common view with respect to the state-of-the-art in the development and scale up of “Flow” chemistry
- To build an interest group, or network, in this area to allow the themes to be developed
- To identify funding opportunities & promote collaboration

The agenda:

- **Introduction and objectives**
Prof Frans Muller (Leeds, iPRD)
- **Industrial perspective: Prep scale flow**
Dr Cara Brocklehurst (Novartis)
- **Industrial perspective: Large scale flow**
Dr Tony Warr (Dr Reddy's)
- **Funding & Collaboration models**
Prof Alastair Florence (CMAC)
Dr Steve Hillier (Chemistry Innovation KTN)
- **Mandate for future interaction, Working groups and the route forward**

Funding opportunities

Different funding opportunities exist based on the aims and ambition of the proposed projects

- PhD projects (single or multiple companies), potentially through **Leeds iPRD** or CMAC
- Industry led consortium through the current Technology Strategy Board call on “**Sustainable Manufacturing for the Process Industry**”. This call specifically mentions continuous manufacture “flow” as a key theme and opportunities exist for both feasibility projects and collaborative R&D
- Academic co-ordinated EU projects

Who should attend?

Chemists, Process chemists, engineers and technology providers with an interest in both understanding the benefits that flow-chemistry can bring to their work or business and understanding the shared challenges which scaling-up this technology involves.

[Click here to register](#)

Tuesday 27th March 10:00

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