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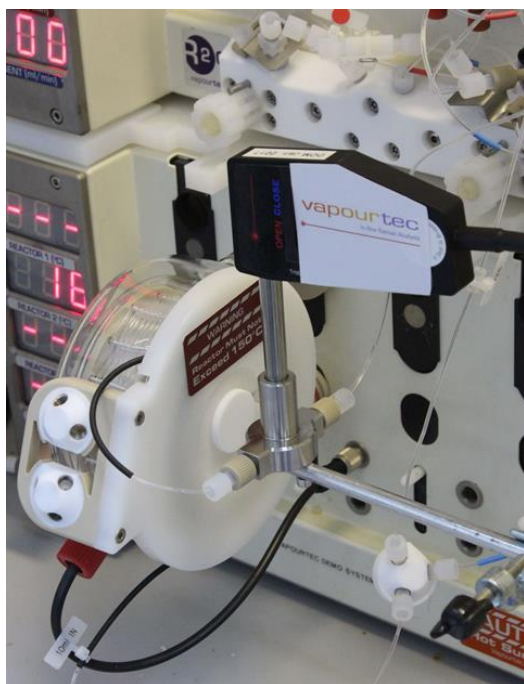
**fullflow** from Vapourtec

Welcome to the Winter 2017 issue of FullFlow, the flow chemistry newsletter from Vapourtec, a must-read for all scientists interested in continuous processing applications and technology.



We would like to wish you a happy holiday and prosperous new year

## Product News



### Raman flow cell now available

At Vapourtec we have seen the growing need for real time reaction analysis and monitoring in flow chemistry. The first Raman flow cell is now available to purchase.

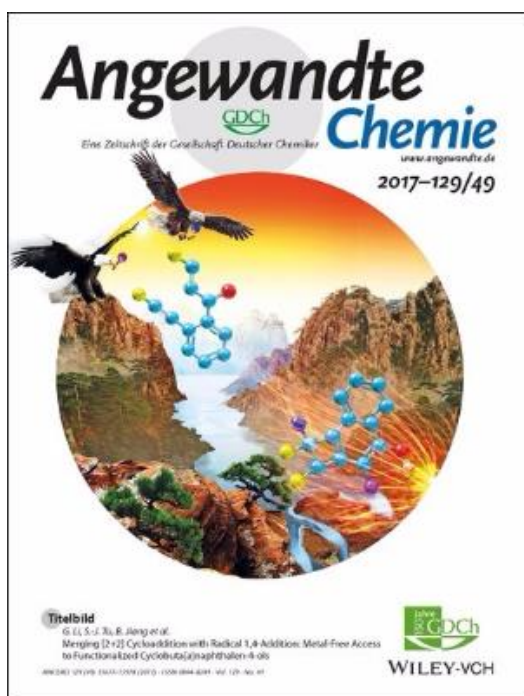
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### Integration of GX-241 autosampler

The GX-241 offers the same rugged and reliable automation capability as the GX-271, with significant advantage of a smaller footprint. Ideal for library synthesis, reaction screening and peptide synthesis.

[Read more](#)



### Unstable diazo compound for cross-coupling in continuous flow

An outstanding paper by Andreas Greb et al. from the laboratory of Professor Steven Ley at the University of Cambridge has demonstrated how a little-used photochemical method of generating diazo compounds can be used in continuous flow with the Vapourtec UV-150 photoreactor to produce highly versatile, but previously challenging to produce and handle, non-stabilised diazo species.

[Read more](#)

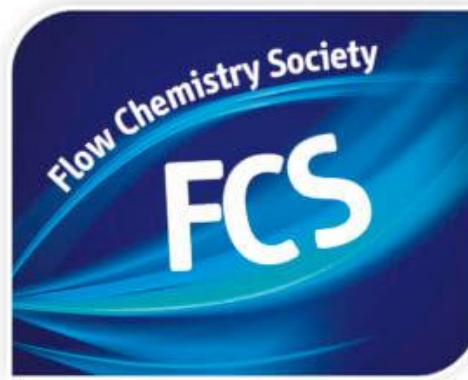
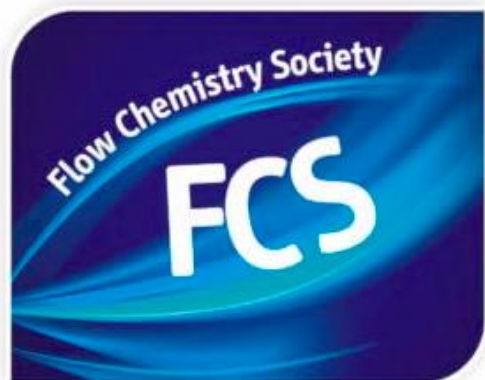


### Vapourtec delivers in Barcelona

The recent 9th Symposium on Continuous Flow Reactor Technology for Industrial Applications, held in Barcelona, Spain, delivered a live demo by Vapourtec research scientist Dr Ryan Skilton. Ryan demonstrated a biphasic oxidation using the Vapourtec [High Flow rate pump module](#) and [Vapourtec Reactor for Rapid Mixing](#) to scale up a liquid/liquid biphasic ester synthesis.

[Read more](#)

## Events



**Flow Chemistry India:** 17th - 18th January 2018, Mumbai, India

**Flow Chemistry Europe:** February 6th – 8th 2018 in Cambridge UK

SELECTBIO is delighted to welcome you all at the 6th International Conference **Flow Chemistry India 2018** to be held on **January 17-18, 2018** in **Mumbai** under the auspices of the **Flow Chemistry Society**. The society aims to unite and represent those who are actively working on this rapidly developing field. This meeting is dedicated to the integration of flow chemistry into everyday practice throughout the world by delivering the latest knowledge and making it available for the entire chemistry community.

The Flow Chemistry Society is running their 7th annual European Conference. Benefit from the expert knowledge of academic and industry leaders and learn how you can transform your organic synthesis processes into a more streamlined, continuous set of synthesis operations.

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AMERICAN CHEMICAL SOCIETY

**ACS National Meeting & Expo –  
Nexus of Food, Energy and  
Water:** - New Orleans, US- March  
18th - 22nd 2018

Benefit from the expert knowledge of academic and industry leaders who are pushing the boundaries of this rapidly evolving field and learn how you can transform your organic synthesis processes into a more streamlined, continuous set of synthesis operations.

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FLOW CHEMISTRY  
PAVILION

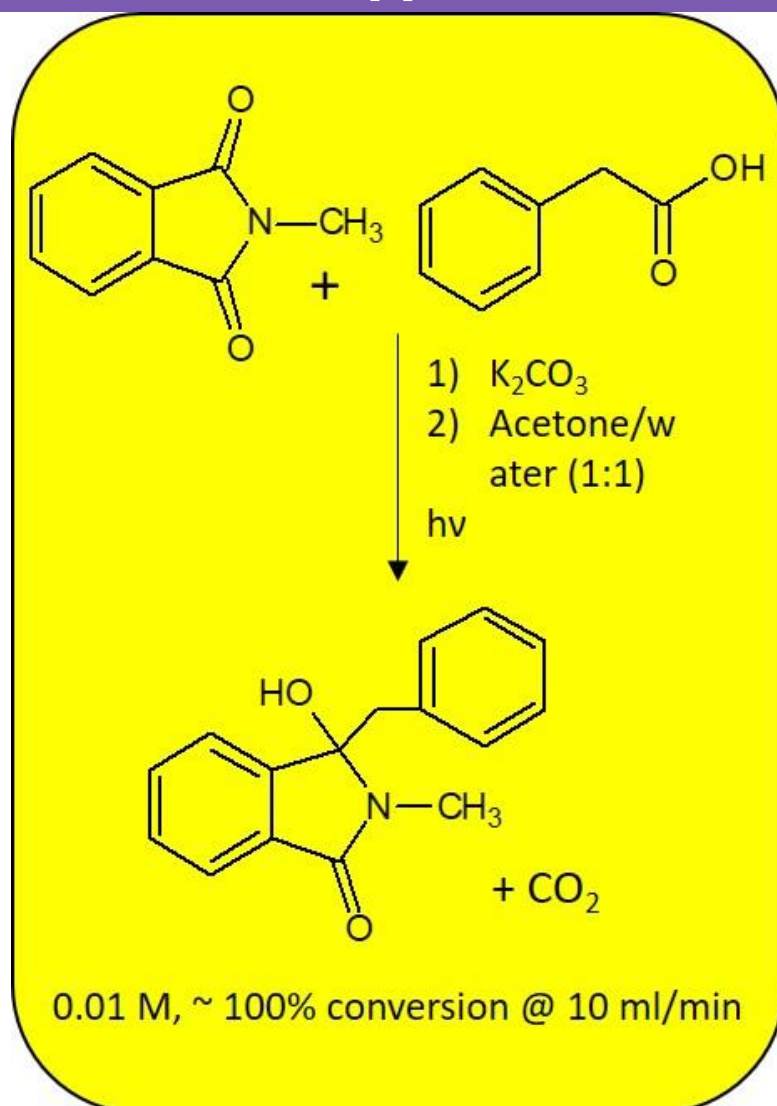
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ACS CHEMISTRY TODAY

**Achema:** Frankfurt, Germany 11th -  
15 June 2018

At Achema 2018 (11-15th June, Frankfurt am Main, Germany) the new Flow Chemistry Pavilion will host the most advanced, innovative companies & knowledge institutes in the continuous manufacturing market, presenting an opportunity for visitors to learn more about this increasingly important topic

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## New Applications

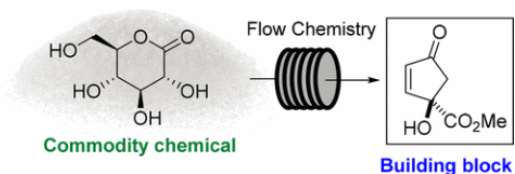


### Photodecarboxylative addition of phenylacetic acid to N-methyl phthalimide

This application note illustrates the use of the Vapourtec UV-150 photochemical reactor for the photodecarboxylative benzylation of N-methyl phthalimide. The transformation has been systematically optimized in terms of reagent concentration and residence time.

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## Publications



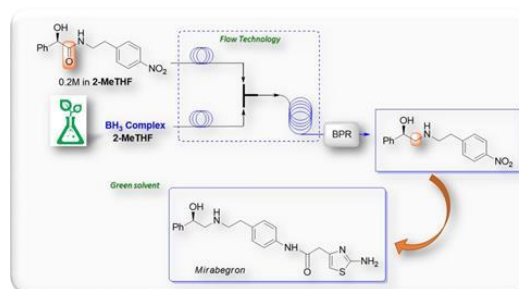
### Sustainable flow synthesis of a versatile cyclopentenone building block

Marcus Baumann†, Ian R. Baxendale†, Paolo Filipponi‡, Te Hu†

† Department of Chemistry, University of Durham, South Road, DH1 3LE Durham, U.K

‡ Novartis Pharma AG, Fabrikstrasse 14, 4002 Basel, Switzerland

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### Targeting a mirabegron precursor by BH<sub>3</sub>-mediated continuous flow reduction process

Sonia De Angelis(a), Claudia Carlucci(a), Modesto de Candia(a), Gabriele Rebuzzini(b), Paolo Celestini(b), Massimiliano Riscazzi(b), Renzo Luisi(a), Leonardo Degennaro(a)

(a) FLAME-Lab – Flow Chemistry and Microreactor Technology Laboratory, Department of Pharmacy – Drug Sciences, University of Bari “A. Moro” Via E. Orabona 4, Bari 70125, Italy

(b) COSMA S.p.A, Via Colleoni 15/17, Ciserano, BG 24040, Italy

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Conjugated polymers via direct arylation polymerization in continuous flow: minimizing the cost and batch-to-batch variations for high-throughput energy conversion

Nemal S. Gobalasingham<sup>1</sup>, Jon E. Carlé<sup>2</sup>, Frederik C. Krebs<sup>2</sup>, Barry C. Thompson<sup>1</sup>, Eva Bundgaard<sup>2</sup>, Martin Helgesen<sup>\*,2</sup>

<sup>1</sup> Department of Chemistry and Loker Hydrocarbon Research Institute, University of Southern California, Los Angeles, California, 90089-1661

<sup>2</sup> DTU Energy, Technical University of Denmark, Roskilde, DK-4000, Denmark

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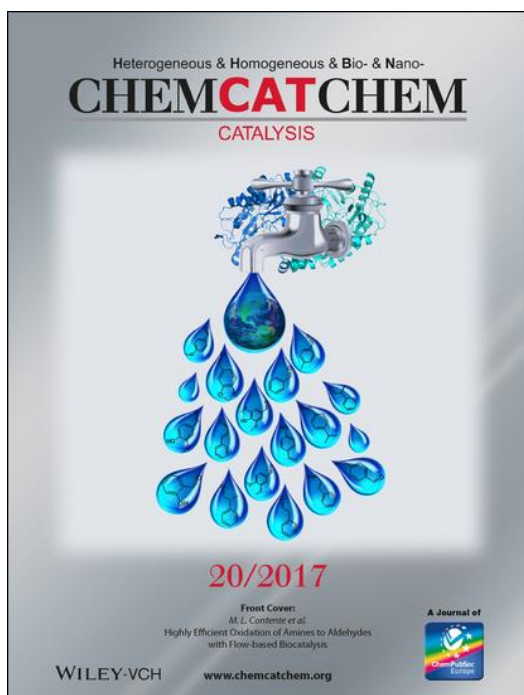
Auto-Tandem Catalysis: Pd(II)-Catalysed Dehydrogenation/Oxidative Heck of Cyclopentane-1,3-diones

Claire J C Lamb, Bryan G Nderitu, Gemma McMurdo, John MTobin, Filipe Vilela, and Ai-Lan Lee

Institute of Chemical Sciences, Heriot-Watt University, Edinburgh EH14 4AS, United Kingdom

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## Highly efficient oxidation of amines to aldehydes with flow-based biocatalysis

Dr. Martina L. Contente<sup>1,2</sup>, Federica Dall'Oglio<sup>3</sup>,  
Dr. Lucia Tamborini<sup>3</sup>, Prof. Francesco Molinari<sup>4</sup>,  
Prof. Francesca Paradisi<sup>1,2</sup>

1 School of Chemistry, University of Nottingham,  
Nottingham, UK

2 UCD School of Chemistry, University College  
Dublin, Dublin, Ireland

3 Department of Pharmaceutical Sciences,  
DISFARM, University of Milan, Milan, Italy

4 Department of Food, Environmental and  
Nutritional Science, DeFENS, University of Milan,  
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