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# fullflow from Vapourtec

Welcome to the Autumn 2016 issue of FullFlow, the flow chemistry newsletter from Vapourtec, a must-read for all Scientists interested in continuous processing applications and technology.

## *Product News*


### *New SF-10 stand-alone reagent pump*

The innovative SF-10 is a highly chemically resistant peristaltic pump capable of delivering smooth flow at up to 10 bar pressure.

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### *Integration of Mass Flow Controllers (MFC)*

Up to two MFCs can now be controlled via Vapourtec's FlowCommander software.

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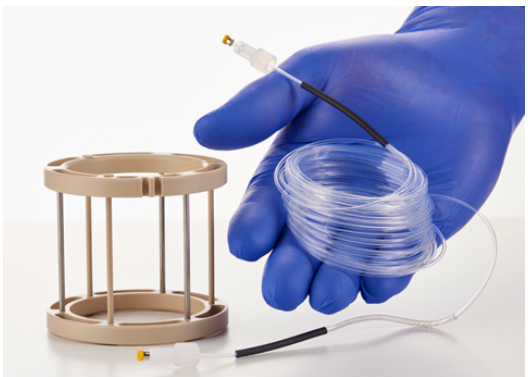

### *Active pressure controller for E-Series*

An innovative software upgrade for all E-Series systems is now available allowing one of the E-Series pumps to operate as a precise pressure controller.

Read more

### *New user replaceable reactor*

The UV-150 photochemical reactor now features easy changed fluoropolymer reactor tubing for improving convenience and reduced cost of ownership.

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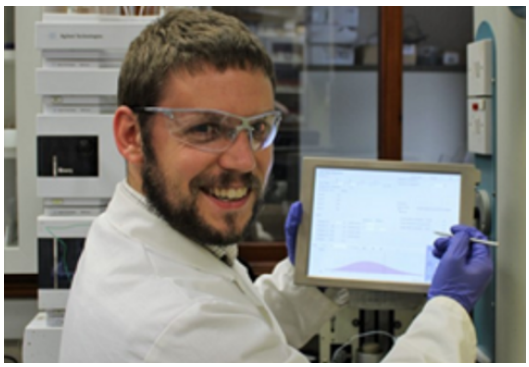
## *Latest News*



### Expanding Vapourtec support team

Flow chemistry engineering experts Vapourtec (Cambridge, UK) has unveiled its new look application support team following two recent, key appointments.

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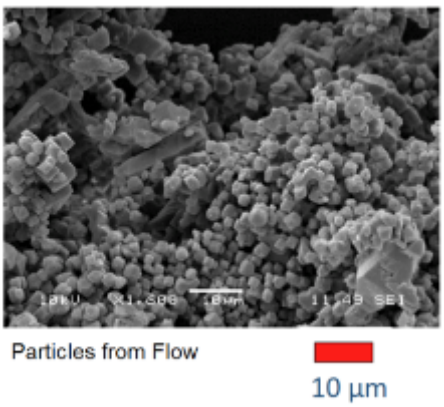


### Successful IMRET conference

IMRET14 (International Conferences on MicroREaction Technology) conference in Beijing, China attracted 280 delegates from 20 nations.

Read more


## Successful ACS conference

Vapourtec is targeting further growth in demand for its flow chemistry technology from the US market following their recent presence at the ACS (American Chemical Society) 252nd National Meeting and Exposition in Philadelphia in August.

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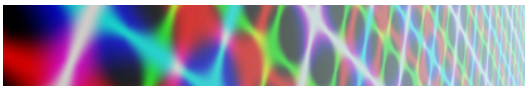
# *Events*

## Synthesis in Drug Discovery and Development 4th Symposium - October 18, 2016

Following on from our hugely successful Symposiums in Manchester (2010), Sheffield (2012) and Leeds (2014) we are pleased to announce the details of our fourth



## Challenges in Catalysis for Pharmaceuticals and Fine Chemicals V - November 2, 2016

The RSC Applied Catalysis Group and the SCI Fine Chemicals Group are pleased to announce 'Challenges in Catalysis V', returning by popular demand, following highly successful meetings in 2007, 2009, 2011, and 2014.

'Synthesis in Drug Discovery and Development' Symposium.

Read more

Read more

## UKASF - 20th Anniversary UK Automated Synthesis Forum, call for Speakers and Exhibitors - November 7-8, 2016

The aims of the symposium are to share best practice and to review new technologies to facilitate innovation in the small and large scale chemical environment.

Read more

## Continuous Flow reactor technology for industrial applications - November 8-10, 2016

We are happy to announce that the 8th edition of the Symposium will be held at TU Delft Process Technology Institute (DPTI).

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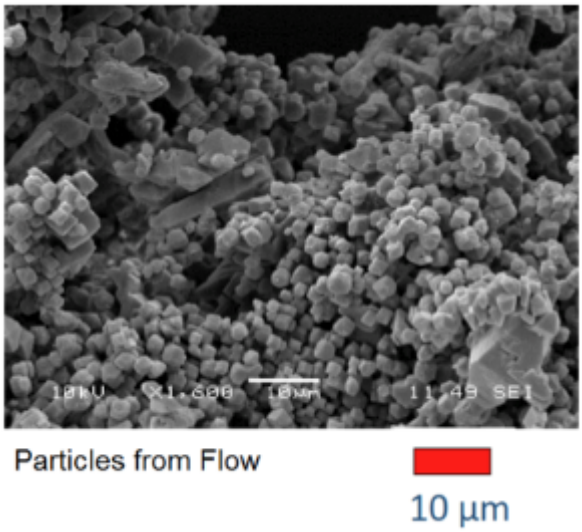
## *New Applications*

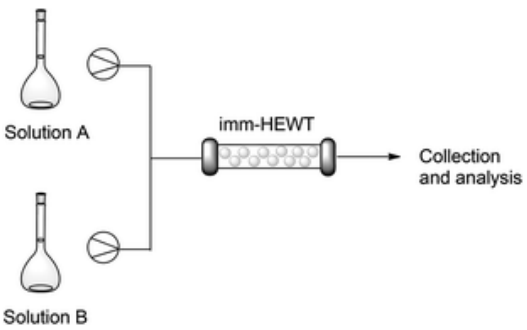



## Nanoparticle synthesis of spin crossover materials

Bath University have recently presented their research using Vapourtec reactors to control the crystal size distribution of these important materials.

Read more

# *Recent Publications*




*Continuous flow biocatalysis: production and in-line purification of amines by immobilised transaminase from Halomonas elongata*

M. Planchestainer, M. L. Contente, J. Cassidy, F. Molinari, L. Tamborini, F. Paradisi
***Green Chem.***, 2017, Advance Article
**DOI:** 10.1039/C6GC01780K


*Aryl amination using ligand-free Ni(II) salts and photoredox catalysis*

E. B. Corcoran, M. T. Pirnot, S. Lin, S. D. Dreher, D. A. DiRocco, I. W. Davies, S. L. Buchwald, W. C. MacMillan
Vol. 353, Issue 6296, pp. 279-283
**DOI:** 10.1126/science.aag0209

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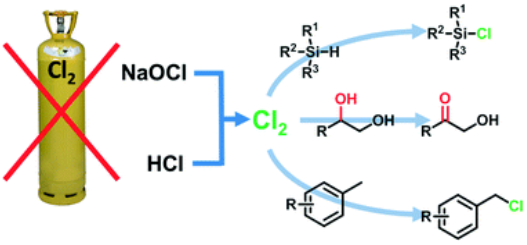


*A laboratory-scale continuous flow chlorine generator for organic synthesis*

F. J. Strauss, D. Cantillo, J. Guerra, C. O. Kappe
***React. Chem. Eng.***, 2016,**1**, 472-476
**DOI:** 10.1039/C6RE00135A

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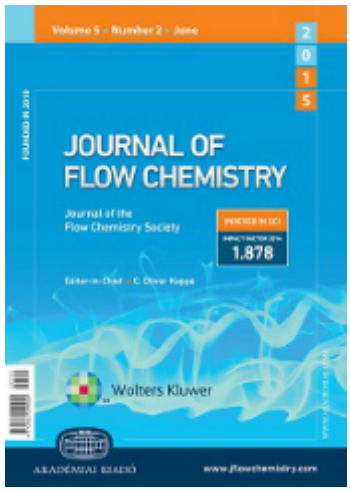
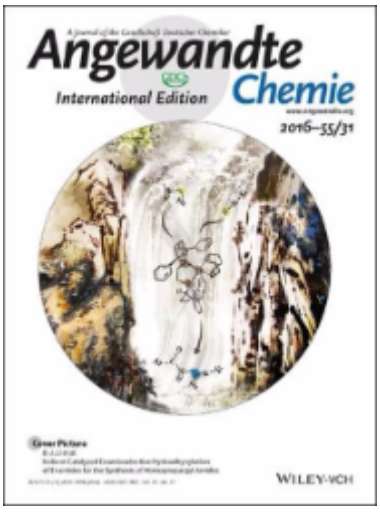



*Delivering enhanced efficiency in the synthesis of α-diazosulfoxides by exploiting the process control enabled in flow*

P. G. McCaw, B. J. Deadman, A. R. Maguire, S. G. Collins
**Print ISSN:** 2062-249X **Online ISSN:** 2063-0212
**DOI:** http://dx.doi.org/10.1556/1846.2016.00013

Read more




*Continuous-flow synthesis and derivatization of aziridines through palladium-catalyzed C(sp3)–H activation*

J. Zakrzewski, A. P. Smalley, Dr. M. A. Kabeshov, Prof. M. J. Gaunt, Prof. A. A. Lapkin
Angewandte Chemie International Edition
Volume 55, Issue 31, pages 8878–8883, July 25, 2016
**DOI:** 10.1002/anie.201602483

Read more

*Ethyl Lithiodiazoacetate: Extremely unstable intermediate handled efficiently in flow*

S. T. R. Müller,T. Hokamp, S. Ehrmann, P. Hellier, T. Wirth
Volume 22, Issue 34, August 16, 2016, Pages 11940–11942
**DOI:** 10.1002/chem.201602133

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