Organic

Prospects for Flow Chemistry (#29)

Jun-Ichi Yoshida | Timothy Jamison | Dong-Ho Kim | Michael Organ

In flow chemistry, a chemical reaction is conducted in a continuous flow system rather than in a batch system like a flask. Although flow chemistry is a well-established technique for large scale production of bulk chemicals, the term has only been coined recently for its application in laboratory synthesis and production of fine chemicals and pharmaceuticals. Benefits of flow chemistry include better control of the reaction environment, use of unstable intermediates, increased safety, easy integration of reactions for multi-step synthesis, and it lends itself to the possibility of streamlined automation. In addition, use of continuous flow microreactors enables the chemistry that cannot be done in batch and introduces a new paradigm in chemical science.

The objective of this symposium will be to overview ongoing work in flow chemistry and to stimulate further progress for the benefit and progress of chemistry community. The main focus of the symposium will be in the field of chemistry in the academic research and development in the pharmaceutical, agrochemical, fine-chemical, petrochemical, polymer, inorganic, and fragrance industry. However, the symposium should not be limited to the above but also include relevant flow chemistry aspects of material science, catalysis, green chemistry, nanotechnology, biotechnology, and latest development in flow instruments and engineering.

Tuesday, December 15, 2015


Wednesday, December 16, 2015