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10th International Workshop on the Crystal Growth of Organic Materials (CGOM10)

This virtual issue features selected papers from the 10th International Workshop on the Crystal Growth of Organic Materials (CGOM10) which was held at the University of Limerick in the Republic of Ireland from June 11–14, 2012. The conference followed previous CGOM meetings in Japan (1990), Scotland (1992), Germany (1994 and 1996), England (1999), Scotland (2003), France (2006), The Netherlands (2008), and Singapore (2010). Because of its success, this workshop is now held on a biannual basis with alternation between Europe and Asia/Americas.

The workshop traditionally promotes, highlights, and debates new developments in research on nucleation, crystal growth, polymorphism, and solid–solid transitions of organic components ranging from "small" molecules to proteins. For the 10th edition, readers will see, among other hot topics, recent work on (i) chiral discrimination in the solid-state associated with resolution or de-racemization; (ii) effect of templates in directing polymorphism and crystallization; (iii) the contrasted effects of polymeric matrices on the inhibition of crystallization or the promotion of a particular polymorphs; (iv) crystallization of co-crystals; (v) effects of molecular conformation in the liquid phase in relation to nucleation processes; (vi) impact of additives on the metastable zone width. Moreover, new or revisited techniques for crystal growth or analysis of the structural purity were also presented through the detailed articles in this virtual special issue.

The success of CGOM relies on a multidisciplinary approach in terms of understanding, characterizing, and controlling the physical, chemical, and biological properties of organic crystals. Through a multiscale approach, the conference spans phenomena occurring even before nucleation up to and including downstream operations such as drying, milling, solid–solid transitions, etc. CGOM is at the nexus of solid state physics, chemistry, thermodynamics, molecular modeling, pharmaceutical science, and chemical engineering.

CGOM11 will be organized by Professor Tamura and his team at the University of Kyoto and will be held in Nara, Japan, from June 17–20, 2014 (see http://www.crystal.h.kyoto-u.ac.jp). In addition, CGOM11 will be a joint congress with the Asian Crystallization Technology Symposium (ACTS-2014). Researchers from academia together with fine chemical industries are encouraged to attend this exciting and stimulating meeting and then to submit their papers for a virtual special issue of Crystal Growth and Design (the papers will undergo the normal peer review process) and through this to work together to develop and push forward this active field of crystal science.

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