



6th International Conference on Population Balance Modelling

7-9 May 2018
Ghent, Belgium

**First announcement
and call for
abstracts**



Danmarks
Tekniske
Universitet



The Conference

The wide application of population balances in fields as diverse as disease progression, biological systems, mining, control of wastewater treatment, nanoparticle synthesis, pharmaceutical and chemical processing industry have brought researchers together in these conferences that are interested in the framework of population balances and its extension to more complex systems, solution and simulation strategies, mono and multivariate size distribution model based control, etc.

The past five International Conferences on Population Balance Modelling, held at Kona (Hawaii, 2000), Valencia (Spain, 2004), Quebec (Canada, 2007), Berlin (Germany, 2010) and Bangalore (India, 2013) have stimulated the increasing interest and therefore continuation of this conference series.

The 6th International Conference on Population Balance Modelling (PBM 2018) aims to bring together researchers and practitioners with diverse backgrounds to allow exchange of ideas across various sub-fields that use population balances, and to provide opportunities for researchers to identify new domains to expand into and new tools to use.

Conference Organisation

Chair: Ingmar Nopens, Ghent University

Vice-chairs: Jitendra Kumar, IIT Kharagpur
Heiko Briesen, TU Munchen
Krist V. Gernaey, DTU

Conference Themes

- ▶ Formulation and solution of PBM
- ▶ Identification and uncertainty of PBM (Validation)
- ▶ Optimisation and control using PBM
- ▶ Novel applications of PBM
- ▶ PBM and spatial heterogeneities

Several workshops related to the conference themes will be organised

Conference Venue

'Het Pand', a former Dominican monastery, is located in the historical centre of Ghent, on the banks of the river Leie. The oldest parts of this impressive building date from the 13th century. During five centuries it was extended and refashioned in different styles. 'Het Pand' houses some valuable collections, such as the rich ethnographical and archaeological collections of the University, the Museum for the History of Medicine, full-size photographs of paintings of Bruegel and Early Dutch Masters, and an interesting collection of stained glass.



Het Pand is located at Onderbergen, 1, in the immediate vicinity of 'Sint-Michiels'-Church.

Important dates

Opening submission system	1 st September, 2017
Abstract submission deadline	1 st November, 2017
Notification of acceptance	15 th January, 2018
Full manuscript submission	1 st April, 2018

Register early!

Early bird registration closes 15th February, 2018

Scope and Philosophy

Ghent University and DTU are joining forces to make PBM 2018 an open platform to share population balance model research with a high scientific quality, interesting applications and new significant developments. To achieve all this, we are providing flexible registration fees and incentives for young researchers, aiming for an attractive scientific program, world-wide participation and high industrial participation.

Organising Committee

Ghent University

Youri Amerlinck (Chair)
Gurmeet Kaur
Andreia Neves do Amaral
Daan Van Hauwermeiren
Sophie Balemans
Michael Ghijs
Timpe Vogelaers
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Technical University of Denmark

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Zhenghong Luo, Shanghai Jiao Tong University
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Markus Kraft, University of Cambridge
Andreas Buck, OVGU Magdeburg
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Richard Braatz, MIT
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Stefan Heinrich, TUH Hamburg
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Contact

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<http://www.pbm2018.ugent.be>

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About Ghent

Ghent (www.visit.gent.be) is recognised internationally as one of Europe's greatest discoveries – small enough to feel cosy, but big enough to stay vibrant. It has enough medieval frivolity to create a spectacle but retains a gritty industrial edge that keeps things 'real'. The modern daily life of the city's active inhabitants plays itself out against a gorgeous historical backdrop. In Ghent, they live, work and enjoy life over and over again each day.



Ghent is located about one hour from Brussels Airport, which is operated by more than 140 national and international airlines. The easiest way to get there from the airport is by train (SNCB, NMBS). The station to reach is Ghent Sint-Pieters.

