

Preface

This special issue of Chemical Engineering Journal is devoted to the 4th World Congress on Industrial Process Tomography taking place in Aizu, Japan, on 5–8 September 2005. The congress was organized by the UK Virtual Centre for Industrial Process Tomography (VCIPT) and the Visualisation Society of Japan. With about 200 papers and as many delegates, the event was the largest ever meeting held on the subject. There are 14 papers in this issue, which are extended versions of a selection of the conference contributions that are related to the chemical and process engineering, and are peer-reviewed. These papers report the most recent development in the use of various modalities (electrical capacitance, electrical resistance, thermal neutron, nuclear magnetic resonance, cosmic-ray, ultrasonic, etc.) to investigate a variety of multiphase phenomena within industrially relevant systems including monolith reactor, packed bed, fluidized bed, bubbling column and impinging jet. It

is hoped that publication of these papers will be of interest to the chemical engineering community and will help with promoting future industrial take-up of the tomography technology.

By the time this issue reaches the readers, it will be approximately a year after the sad death of Professor Tomasz Dyakowski, who was actively and continuously involved since the early years of process tomography in later 1980s. This special issue is dedicated to the memory of Professor Dyakowski, who will be greatly missed by the community.

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