

## Preface

ModelCARE2007 is the sixth international conference on Calibration and Reliability in Groundwater Modelling. The conference provided an international forum for state-of-the-art presentations on relevant methodologies and techniques, and the identification of needs for further development. The conference also illustrated the applicability of various techniques through advanced case studies on calibration and reliability techniques. ModelCARE2007 was a follow-up of previous successful conferences organised in association with IAHS in The Hague 1990, Golden 1996, Zürich 1999, Prague 2002 and The Hague 2005.

This (postpublished) volume is an outcome of the International Conference on *Calibration and Reliability in Groundwater Modelling: Credibility of Modelling* (ModelCARE2007) that was held in Copenhagen, 9–13 September 2007. This conference was jointly organised by:

- Geological Survey of Denmark and Greenland (GEUS), Copenhagen
- Department of Geography and Geology, University of Copenhagen
- International Commission on Groundwater (ICGW), of the International Association of Hydrological Sciences (IAHS)

The book comprises 57 papers and this book, like the conference, is organised in the following main themes:

- 1) Development in modelling and uncertainty assessment
- 2) Credibility in modelling for practical approaches
- 3) New data types and monitoring systems
- 4) Integrated hydrological modelling
- 5) Reactive and density affected transport
- 6) Parameter estimation and model calibration
- 7) Geological models and conceptual model uncertainty

The papers published here were chosen from 74 papers pre-selected among the oral and poster presentations at the conference. The selection was performed by the Editors based on two or three reviews of all papers. The reviewers were in general one member of the Scientific Advisory Committee and one or two authors of candidate papers. The revised versions of the papers were again checked by the Editors. The overall procedure has significantly improved the quality of the selected papers and the Editors are thankful to the reviewers for their efforts.

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The Editors also wish to express their gratitude to all who assisted in organising the conference. In particular we would like to thank MiaCon Meeting and Conference Services for their very professional support in the organisation of the conference and Erik Nørby for the development of the conference homepage. Furthermore, we are grateful to the sponsors of the conference: The COWI Foundation; Copenhagen Energy; City of Copenhagen; Rambøll Denmark; DHI Water Environment Health; FIVA - International Research School of Water Resources; Royal Haskoning, The Netherlands; International Ground Water Modelling Center; and UNESCO.

The Editors would like to thank the members of the Scientific Advisory Committee:

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