



Applied Multidimensional Geological Modeling

*Informing sustainable
human interactions with
the shallow subsurface*

Edited by

Alan Keith Turner

Holger Kessler

Michiel J. van der Meulen



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for life

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Edited by

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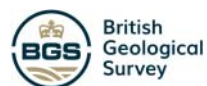
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Most of the geological survey authors are members of two overlapping communities of practice that have been instrumental in advancing the state-of-the-art of geological modeling. Since 2001, North American and European geologists have gathered in a series of biennial workshops, organized as fringe-events at Geological Society of America Annual Meetings and also as regular sessions. In 2011, a group of European participants decided to establish an equivalent *European 3D Geological Modeling Community* to help coordinate and exchange information among the geological surveys of Europe. By exchanging best practices, organizing modeling courses, formulating research questions, and interacting with model users and modeling software developers, these two communities have fostered a congruence of thinking and a considerable momentum which underpins this book and the science behind it.

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approach, gradually picking up speed and efficiency, and ultimately becoming a fully functional editorial board. The co-editors Michiel J. van der Meulen and Holger Kessler offer their sincere thanks to Editor-in-chief Alan Keith Turner for his dedication, energy, tenacity, and wisdom during the creation of this publication. He solicited and processed any type of input that authors provided, ranging from PowerPoint presentations and conference abstracts to full-blown journal-grade manuscripts, and he managed to morph all of those into a book that reads as one.

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We hope that this book will be a valuable resource for those who want to begin geological modeling, to further develop geological models, or to apply geological models to resolving societal issues.

The Editors