The Didactics of Mathematics: Approaches and Issues

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Editors

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A Homage to Michèle Artigue

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Preface

This book is based on a conference held in Paris on May 31–June 2, 2012, on the occasion of the retirement of Michèle Artigue from her position at Université Paris Diderot (Paris 7). Organised under the theme *The Didactics of Mathematics: Approaches and Issues. A Homage to Michèle Artigue*, the so-called Artigue Colloquium gathered more than three hundred colleagues from all over the world.

When Michèle Artigue announced that she was officially retiring from her position at Université Paris Diderot—but happily continuing her activities as an Emerita Professor, allowing her to be further involved in mathematics education research or other forms of involvement in support of the field—it became clear to us, as well as to numerous members of the international mathematics education community, that it was essential to mark in a very special way that moment in her truly remarkable career. The idea of hosting in Paris a colloquium in homage to her exceptional contribution to the development of didactics of mathematics over the last decades was very quickly and easily agreed upon.

This book, the outcome of the Artigue Colloquium, offers more than a mere reflection of its scientific content, as well-known researchers from the field have been invited to summarise the main topics where the importance of Michèle Artigue’s contribution is widely recognised. Her multiple interest areas give to this volume its unique flavour of diversity.

We wish to use this opportunity in order to express our most sincere friendship to our colleague, Michèle Artigue, with whom each of us has intensively interacted over the past decades, in often quite different contexts.

Bernard R. Hodgson
Alain Kuzniak
Jean-Baptiste Lagrange

Acknowledgements

We wish to express our deepest gratitude to the authorities of *Université Paris Diderot*, in particular, for providing us with the premises and facilities for hosting the colloquium in homage to Michèle Artigue held in Paris on May 31–June 2, 2012. We also thank the members of the *Laboratoire de didactique André Revuz*, for their enthusiastic reaction to the project and for their constant support.

Special thanks are also due to the members of the Scientific Committee¹ and Organising Committee² in charge of the Colloquium, for their collaboration in building a programme reflecting the vast scope of Michèle Artigue's contribution to the field, as well as for the actual handling of the various colloquium's sessions and events.

We also wish to thank more than three hundred colleagues from all over the world who were present at the colloquium, and contributed by their presence to the homage that we aimed at paying to our most esteemed colleague, thus making this scientific gathering a highly memorable and rewarding experience.

Special thanks are due to the whole editorial staff at Springer who supported us in the preparation of this book. But above all, we want to express our deepest gratitude to our editor Natalie Rieborn who, from the very outset of the project through its fruition, has brought us her enthusiastic support.

Starting from the many variants of the prose in English—today's *lingua franca*—written by some thirty different authors, the majority of whom (including the three editors of this volume) are non-native English speakers, and bringing this to a level of high-quality language, is a difficult but essential task. It was accomplished

¹Pierre Arnoux (France), Ferdinando Arzarello (Italy), Bill Barton (New-Zealand), Carmen Batanero (Spain), Isabelle Bloch (France), Tânia Campos (Brasil), Corine Castela (France), Tommy Dreyfus (Israel), Bernard Hodgson (Canada) co-president, Alain Kuzniak (France), Jean-Baptiste Lagrange (France) co-president, David Rabouin (France), Kenneth Ruthven (UK), Kalifa Traoré (Burkina-Faso), Fabrice Vandebrouck (France), Laurent Vivier (France).

²Maha Abboud-Blanchard, Dominique Baroux, Christine Chambris, René Cori, Cécile de Hosson, Brigitte Grugeon, Christophe Hache, Alain Kuzniak president, Mariam Haspekian, Nathalie Sayac, Fabrice Vandebrouck, Laurent Vivier.

superbly by Kim Woodland, to whom we wish to express our thanks for her skilful and respectful suggestions that greatly contributed in making the authors' ideas be expressed in a nicer, and often clearer, language.

Bernard R. Hodgson
Alain Kuzniak
Jean-Baptiste Lagrange

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