

Preface to the Second Edition

The first edition of *A New Ecology* emanated out of a brainstorming workshop that Sven Jørgensen organized in June 2005 on the Danish Island, Møn. Out of those sessions emerged the ideas that shaped that book which was published in 2007. The field of ecology is rapidly changing, and we notice there is movement toward systems ideas and holistic thinking. Perhaps there is some impact of the ideas in *A New Ecology*, but there is much more to do to mainstream this approach and witness its penetration into standard ecology and biology textbooks. A stronger integration of physical sciences (physics, chemistry, engineering, etc.) with the biological sciences would help realize a holistic science as envisioned here. Even further work is needed then to incorporate the social sciences and policy choices that are needed to find pathways that promote sustainable development.

During the ensuing period between editions, we unfortunately lost two critical members of our research group, Tiezzi (2010) and Jørgensen (2016). In fact, it was Sven's initiative to have a second edition. He made the arrangements and initial outlines for the new book. The book has the same main elements of the first edition but with the addition of one chapter on hierarchy (Chapter 5) and another on the application of the principles to policy and management (Chapter 11). Other chapters have been updated and expanded. Due to a close collaboration of the authors, the book is truly a team effort in which all authors are free to comment and contribute to each chapter. In preparing the second edition, the "team" was able to meet on two occasions for brainstorming, first in Montpellier, France, during the EcoSummit 2016 (Fig. 1). The second meeting occurred at the International Institute for Applied Systems Analysis in Laxenburg, Austria, in January 2017 (Fig. 2). In addition to the meetings, numerous emails, "ping-pongs" as Sven



FIGURE 1 Breakout meeting during lunch of the Ecosummit 2016 in Montpellier, France (Simone, João, Søren, Larry, Felix, and Brian).



FIGURE 2 Selfie taken in January 2017 in the Elisabeth Room of Schloss Laxenburg, current home of the International Institute for Applied Systems Analysis, Laxenburg, Austria (João, Brian, Simone, Søren, and Larry).

referred to them, have produced this volume. The book also would not have been possible without the patient persistence of the Elsevier publisher, Emily Thomson. We hope that the reader has as much fun reading the book as we did in discussing, learning, and constructing the ideas that have shaped our research agenda in systems ecology.

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Copenhagen, June 2019

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Laxenburg, June 2019