

Acknowledgments

It is difficult to account for all of the intellectual debts we owe to many people, over a long period of time (since the late 1980s). Unfortunately some of them will inevitably be overlooked in any such attempt as this. To any such we apologize. Speaking for myself, my primary intellectual debt must be to the late Allen Kneese, who first introduced me to economic theory at Resources for the Future, back in the late 1960s, especially 1968. It was then that I became convinced that the laws of physics, notably the first and second laws of thermodynamics, had to be incorporated explicitly into economic theory. It was somewhat later that I became aware of the work of Nicolas Georgescu-Roegen and Herman Daly, with which I did not always agree, but which stimulated this continuing interest on my part. Others who contributed to my informal education back then included Ralph d'Arge, Thomas Crocker, John Krutilla, Ronald Ridker, Adam Rose and Kerry Smith. More recently I have learned a great deal from younger colleagues, especially Christian Azar, Jeroen van den Bergh, John Gowdy, Jean-Charles Hourcade, and Michael Toman. During the past fifteen years my knowledge of modern thermodynamics, which was modest to minimal when I left graduate school, owes a great deal to Stephen Berry, and the pioneering work of Ilya Prigogine and his colleagues. Later I came across the work (but not the person) of Jan Szargut, and still later that of Göran Wall, Erik Eriksson, Thomas Kåberger, Bengt Mansson, Enrico Sciubba and others encountered in the course of several Gordon Research Conferences and international energy conferences.

From mid 1986 until 1990 I spent two academic years and five summers at the International Institute of Applied Systems Analysis (IIASA) at Laxenburg, near Vienna. It was during that period that I first met Katalin Martinás, Erno Zalai and several of her other Hungarian colleagues in Budapest and became acquainted with her heterodox but fascinating ideas. To be honest, it has been the continuing interaction with her – not always smooth – that finally led to this book.

Along the bumpy road between 1990, when we left IIASA and returned to Pittsburgh, and the present moment I must acknowledge financial support from my endowed Sandoz – later Novartis – Chair at INSEAD (which I held from 1992 through 2000), and support from the MacArthur Foundation via the 2050 Project, as well as the European Commission during the years

1993–5, which enabled me to bring Kati Martinás to Fontainebleau for 18 months, during which we published several papers.

We also owe a common debt to Reiner Kümmel and the WE-Heraeus Foundation, for sponsoring a conference at Bad Honef, in November 2000, which brought us together once more and provided the final incentive to complete this book. We are very grateful to Ulrich Witt, Director of the Max Planck Institute for Evolutionary Economics, in Jena, for inviting us to present our ideas to a critical audience in September 2002. Finally we both acknowledge that this book (and several joint papers that preceded it) could never have been written without the invaluable assistance of my wife, Leslie Ayres, for many hours of technical computer backup, as well as emotional support.

RUA

In addition to the common debts noted above, I want to express my thanks to László Kapolyi, who oriented me to this question, to András Bródy who introduced me to economics; to the participants and organizers of the CSNSS workshops, and to my colleagues Sergey Amelkin, Zsolt Gilányi, Éva Hideg, Olga Kiss, István Kirschner, Béla Lukács, András Margittay-Beck, Dietmar Meyer, Michel Moreu, Aladár Nagy, Erzsébet Nováky, Konstantin Sajó, László Ropolyi, András Simonovits, Sorin Solomon, Anatoly Tsirlin, Erno Zalai, László Zsolnay. I acknowledge financial support from OTKA (T29542). Finally, for their patience and help, I have to thank my husband Guszti, my children Benedek and Veronika and my mother Katalin. I also wish to thank Leslie Ayres for her hospitality.

KM