PREFACE

Milan Straškraba died during the preparation of this book in Denver on 26th of July year 2000. We, his co-authors, not only lost a co-author but a unique friend, who in addition had an immense holistic knowledge about lakes, reservoirs and ecosystem properties and reactions. We will never forget his unique personality and his valuable contributions to our scientific discipline. We have therefore dedicated this book to Milan Straškraba's memory.

The authors are listed alphabetically to emphasize that all four main authors have contributed equally to the volume.

Both the United Nations Environmental Program and World Health Organization supported the initial development of this book, and their support is gratefully acknowledged. Nevertheless, the views expressed in this book are solely the views of the team of authors who prepared it, and do not necessarily reflect the views or policies of either of the above-noted organizations.

This new volume was developed primarily (though not exclusively) for three groups of potential readers, including (i) biologists, chemists and engineers working in water quality laboratories; (ii) managers responsible for deciding on actions to be taken regarding lake and reservoir management; and (iii) local officials and politicians dealing with the environment, particularly its water components. Reading some of the more general parts of this volume also will be useful for the representatives of public organizations dealing with lakes or reservoirs. Differential reading of this volume by these three groups may be most efficient in its use. Biologists, chemists and engineers might be served most efficiently by starting with Chapter 1 and going through successively to Chapter 10, considering the most important conclusions. Water supply managers may wish to start with Chapter 10 as a technical outline, and subsequently select the chapters with more information on the subjects in which they are most interested. The last group of potential readers, with the broadest interests, may perhaps best start with Chapter 8, as a means of first getting a nontechnical overview of lake and reservoir water quality management. If they wish to explore a given topic in more detail, they may then proceed to the more technically-oriented recommendations contained in Chapter 10.

The presentations of lake and reservoir water uses and abuses (Chapter 2), monitoring of lake and reservoir water quality, emphasizing result evaluations (Chapter 3), preventive and corrective management measures in the waterbody and its drainage basin (Chapter 4) and the use of mathematical for management (Chapter 5) are of common interest in regard to both lakes and reservoirs, and are more technical in nature than the remaining chapters

of the book. Problems more specific to reservoirs are dealt with in Chapter 6, which focuses on reservoir management and considerations for constructing new reservoirs. Based on the more general problems, the development of water quality management strategies, the information regarding examples of poor lake and reservoir management, and an introduction to the problems of integrated management are also highlighted (Chapter 7). Several examples of lakes and reservoirs in very different natural and social environments, and discussion of their problems and management solutions are presented as case studies (Chapter 9).

The present volume represents a collaborative effort, with each chapter identifying a primary author and the additional contributing authors. All the co-authors of the book have commented on some or all portions of this book, and contributed various inputs (text, ideas, information) that shaped its final form. It is hoped that this process has produced a mature volume, with a relatively uniform structure and balanced presentation focusing on progress made in lake and reservoir water quality management. I wish to thank all the co-authors for their patience and understanding regarding the complexities involved in the organization and operation of such a heterogeneous group, and particularly for their willingness to adapt to the changes in scope and structure of the book as it has evolved from the initial intention to concentrate on a more scientifically-oriented, independent lake and reservoir management monograph, to the combination of scientific and management-oriented focus of the final document.

S.E. Jørgensen