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DEDICATION

This book is dedicated to the memory of our colleagues and friends who departed since our last large gathering in October, 1973, at the III International Symposium on Atherosclerosis in Berlin. They had been missed by many of those in attendance at the Workshop-Conference at London, Ontario, but in many ways they will always be with us:

1. Mrs. Anna French, Oxford, England, and formerly a member of the Sir William Dunn School of Pathology, a close friend and the wife of our distinguished late colleague, Dr. John French;
2. Dr. John E. Kirk, Washington University, St. Louis, Missouri, a renowned investigator in the field of enzymology of normal and atherosclerotic human arteries, a co-editor of the Series of Monographs on Atherosclerosis (S. Karger, Publisher);
3. Dr. Hugh B. Lofland, Bowman-Gray School of Medicine, Winston-Salem, North Carolina, an outstanding scientist whose animal experimentation contributed much to our understanding of the genetic and biochemical aspect of atherosclerosis;
4. Dr. Barbara Robert, Paris University and "Maitre de Recherche" --CNRS, Paris and Creteil, France, a distinguished scientist who pioneered much of our present day knowledge on several aspects of arterial connective tissues and their reactivity in atherosclerosis; and
5. Dr. Simon Rodbard, City of Hope Medical Center, Duarte, California, a well known and respected investigator who in his life-long career was concerned with the role of biophysical factors in the process of atherosclerosis.

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PREFACE I

The International Workshop - Conference on Atherosclerosis was held at the University of Western Ontario, London, Ontario, Canada, September 1 - 3, 1975. This book does not represent in a strict sense the entire proceedings of the above Workshop - Conference, but does reflect largely the format and the essential content of the scientific sessions. Thus, each of the three Sections of the book is comprised of the summarized presentations either at the Plenary Sessions (Section I), Proffered Papers (Section II) or Workshops (Section III).

Section I comprises all the presentations of the Plenary Session on September 1 and the first three presentations at the Plenary Session on the last day of the Conference (September 3). The remaining two addresses of the latter Session (Resume of Workshop - Conference and Closing Remarks) follow the Section III at the end of the book. Sections II and III are subdivided into Chapters which correspond to the individual Sessions of Proffered Papers and Workshops, respectively. To facilitate the orientation, particularly for those who attended the Workshop - Conference, a Summary Table of all Sessions of Proffered Papers designated as Chapters in this book, precedes Section II, and a similar Summary Table of Workshops, also designated as Chapters, precedes Section III. The Tables include, in addition, the names of both Chairmen of each Session. The Chairmen whose names do not appear on either Summary Table are those who chaired the two Plenary Sessions, i.e., Dr. S. Wolf, Galveston, U.S.A., and Dr. G. Schettler, Heidelberg, Germany (Plenary Session I) and Dr. J. L. Beaumont, Creteil, France, and Dr. A. Studer, Basel, Switzerland (Plenary Session II).

Only the discussions at Workshop Sessions were recorded at the Conference, and were subsequently transcribed and edited by one or both Chairmen of the appropriate Workshop. This component of the book is not uniform because the format of the submission was left at the discretion of the Chairmen of the individual Workshops. Some Chairmen preferred to summarize the Discussion following each presentation and that of more general nature (at the end of all pre-

sentations). Others supplied, whenever possible, a verbatim version. In only two instances the Chairmen of Workshops were unable to provide the Discussion.

The Editors have taken the prerogative of maintaining the tenor of the manuscripts as submitted, and largely only corrections of the typographical and grammatical errors were made.

The Editorial Board was selected in a way to allow to expediate the processing and final editing of the individual Chapters. Thus, almost all members were selected on the "near home basis".

On behalf of both Co-editors sincere thanks are expressed to:

- all the Chairmen of the Workshop - Conference for receiving from the participants of their respective sessions and pre-editing the manuscripts, and to the Chairmen of the Workshops for transcribing and summarizing the Discussions;
- the participants in the Workshop - Conference for providing, with a few exceptions, the manuscripts on time and in the format as requested;
- the members on the Editorial Board for their prompt final reviewing and correcting of the manuscripts prior to publication;
- the Publishers for the extended support, generosity and continuous cordial co-operation, particularly that of Miss Phyllis Straw and Mr. Stephen Dyer;
- Mr. Mike Donnelly of the Art Department at the University Hospital, London, for revising the size and printing of the illustrations whenever necessary; and
- our secretaries, Miss Ruth Watson, Miss Judy Balint and Mrs. Mary-Lou Duffy for their untiring work and invaluable assistance in the preparation of this publication.

G. W. Manning

PREFACE II

During the past decade some Canadian investigators engaged in work on atherosclerosis have been invited to participate in all three International Symposia on that subject (Athens, Greece, 1966; Chicago, U.S.A., 1969; Berlin, Federated German Republic, 1973), and to contribute to numerous other smaller international conferences on similar and related topics. As it was, understandably, the growing desire of the Canadian group to reciprocate the hospitality of so many colleagues throughout the world, an invitation, extended at the Business Meeting of the European Atherosclerosis Group at Berlin's International Symposium in October, 1973, to host a meeting in 1975 in our country, was accepted with pleasure.

The Organizing and Programme Committee was constituted in the late fall of the same year and the first application for support along with a preliminary outline of the proposed Programme was in the hands of the Ontario Heart Foundation for its meeting in the first week of January, 1974. Shortly thereafter copies of the proposal were submitted to other (potential) supporting agencies. Naturally, the originally estimated budget was based on the costs for travel, accommodation and meals as these were operational at the end of 1973. By the time the approval for a nucleus support was granted by late summer and early fall of 1974, the budget rose to almost twice the original estimate; upon the completion of details pertaining to the Programme and local arrangements, all required prior to issuing invitations to potential participants, the budget exceeded well over twice the initially estimated costs. It was therefore essential to indicate in the letter of invitation that the realization of the Conference was contingent upon the self-supporting efforts of as many participants as possible--a step not undertaken lightly by the Committee. The response was remarkable, and we were truly learning by the action and attitude of our colleagues how many friends of Canada there are around the world! Moreover, as the Conference was scheduled for September 1 - 3, i.e., over the Labour Day holiday and this day is jealously guarded as a holy day in the U.S.A., many people doubted whether our American colleagues would be willing to sacrifice it to attend

a professional meeting. But they came. Many came by car, traveling great distances and "teaming" up; and some arriving with wives and children. The support of our endeavour was by no means restricted to our colleagues from the U.S.A. but was most generously extended to us by some who came from countries as remote as Japan and Australia. Without the (self-supporting) contributions of all those colleagues, the Conference would not have taken place.

There were several other (than budgetary) "threats" to the Conference, the most serious being our national, extended postal strike just shortly after the written invitations were issued, and communications had to proceed by telephone, telegrams and cables -- thus further impinging upon the budgetary resources. The impending airline strike, just at the time of the scheduled arrival of the participants, was averted, we believe, in part at least owing to the intervention by the good offices of the President of our University, Dr. D.C. Williams.

Not all of our colleagues and friends whom we were hoping to greet here, could be with us. Some, because they departed for ever and this book is, indeed, dedicated to their memory; others, because they had to attend unexpectedly to pressing matters. Of the latter, several donated their energies and support to the Conference nevertheless, and here I wish to mention particularly Dr. William Insull, who was originally scheduled to co-chair one of the Workshops.

There were approximately 450 registrants from twenty two countries at the Workshop-Conference which consisted of two half-day Plenary Sessions (at the beginning and end), sixteen Workshops and fifteen Sessions with (74) Proffered Papers. Half of the afternoon on the second day of the Conference was not scheduled for Scientific Sessions in order to provide for some relaxation prior to embarking upon the bus trip to attend a play ("Saint Joan" by George Bernard Shaw) at the Shakespearean Theatre, Stratford, Ontario.

On behalf of the Organizing and Programme Committee, gratitude is being conveyed to the sponsors of the Conference, i.e., the Ontario Heart Foundation, the Canadian Heart Foundation, the University of Western Ontario (through the generosity of both Dr. D. Carlton Williams, the President, and Dr. Douglas Bocking, Dean of the Faculty of Medicine), and the European Atherosclerosis Group; to the many donors listed separately, whose generosity enabled us to carry on despite the tremendous increases of world travel costs; to all our colleagues and friends who contributed to the scientific aspect of the programme and to those who were generous and understanding in securing the necessary support from other sources; and to the Physical Plant and Food Service Departments of

the University of Western Ontario for the excellent facilities, and smooth and competent operation of the many activities often scheduled concurrently. Warm appreciation for hard work, personal sacrifice of time and resources, and excellent results in assuring that the Conference carried an almost personal note of hospitality is expressed to the Ladies' Committee, chaired by Mrs. R.W. Gunton, co-chaired by Mrs. D. Bocking and Mrs. C.G. Drake, and aided by nine other ladies (listed separately). Not only did the ladies organize an interesting programme for the accompanying wives but in addition arranged for the visiting children to be occupied. It is fair to state that the atmosphere of the entire Conference was "induced" by the Ladies' Committee.

It is an almost impossible task to extend my personal appreciation and gratitude to all those, without whose constant and patient help throughout the entire time of preparations for, and at the time of the Workshop - Conference, the efforts would have not succeeded.

I wish to thank all the members of the Organizing and Programme Committee for their devoted work and help in devising the programme, in particular Drs. Carroll, Gunton, Little, Shaper and Wissler; for assisting in obtaining donations, in particular Dr. Schwartz who put into this project much time and energies, and was very successful; for operational aspect of the meetings, in particular Dr. Squires, Chairman of the Local Arrangements Committee who attended to every minute detail and devoted an unlimited amount of his time months prior to, and at every stage of the Conference, both at the level of the scientific and (general) social aspects; and for advising constantly from the overall point of organization of an international meeting, particularly Mr. Murray Robertson of the Ontario Heart Foundation. Sincere appreciation is expressed to Dr. Manning, who graciously accepted the very burdensome responsibility of the Editor of the Proceedings of the Workshop-Conference. Of the Committee members I wish to thank also Dr. Carroll for providing the "steady state" and stabilizing strength throughout the preparations for the Conference. Dr. Carroll was always available for help and advice, be it in scientific or other matters requiring attention.

Personal gratitude is expressed to Miss Evelyn McGloin of the Ontario Heart Foundation (OHF), who, far beyond the call of her duties, selflessly helped in all phases of preparations and execution of the Workshop - Conference, travelled from Toronto to London on several occasions to attend in person to many details, and worked very hard in her quiet, competent and always friendly way. In consultation with Mr. Robertson and aided by a couple of staff members of OHF, she was responsible for the printing and mailing of Programmes, Registration, travel reservations for overseas guests, budget appropriations and other details, too many to be all mentioned.

I wish to thank in a very special way, Mrs. Mary-Lou Duffy, my secretary, for her patience, ceaseless work and as the only person who shared all the concerns that accompany the preparations of a three-day-long scientific endeavour; in helping with the Registration at the Workshop - Conference, Mrs. Duffy was involved from the inception to completion of that Conference.

Finally, I wish to thank all of the numerous people who were helpful, encouraging and understanding, including my colleagues in the department, during the many "taxing" months, particularly those immediately preceding September 1 - 3, 1975.

M. Daria Haust

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