

# Preface

In November 2000 a workshop sponsored by the American Society for Testing and Materials (ASTM International) brought together individuals from academia, industry, and regulatory bodies to examine important issues surrounding the development of Bone Graft Substitutes for Clinical Use. The effort, co-sponsored by the American Academy of Orthopaedic Surgeons (AAOS) achieved unprecedented success, and with the backing of ASTM International and AAOS a monograph largely based on the proceedings of that workshop has been produced. As with the workshop, the monograph provides various perspectives on the variety of bone graft substitutes currently available, and proposed for use. There is a special emphasis on outlining the challenges in the development, evaluation and use of these materials, along with analyses of regulatory and standards development concepts.

There are a number of individuals whose efforts in producing this monograph must be acknowledged. Dr. Barbara Boyan was the first individual I called, and came at her own expense to the workshop to provide a lead lecture. Not surprisingly, she was the first to answer the call for manuscripts for the book. I am indebted to her. Dr. Joseph Lane and Dr. Kuber Sampath also gave lead lectures and provided outstanding manuscripts for the book, while Dr. Arnold Kaplan re-routed a trip around the world to participate in the workshop. Drs. Jack Lemons and Joshua Jacobs, the leadership of ASTM International, were the catalysts for the workshop, and encouraged the production of this monograph, while Dr. Mauli Agrawal provided significant support in his roles as ASTM International publications committee liaison and section leader for the book. In addition, the production staff at ASTM must be commended for their work. Led by Ms. Kathy Dernoga, their diligence and professionalism made this book a reality. On the Academy side, Dr. Randy Rosier, Chair of the Biological Implants Committee and Ms. Jeanne Kennedy must be thanked for their encouragement throughout the development of the workshop and monograph.

I must thank the inner circle of individuals who helped me on this project. This includes my good friend and colleague Dr. Mohamed Attawia, and Dr. Dharendra Katti who were active in all phases of the work. Finally I must thank my clinical mentors, Dr. Henry Mankin, Dr. Charles Epps, and Dr. Augustus White and especially my research mentor Dr. Robert Langer who taught me science, and who has been the guiding light for my career.

To all who have helped in producing this monograph, I give thanks.

*Cato T. Laurencin, M.D., Ph.D.*