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Volume 9A

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Preface

The first ACS Adhesion Symposium was held in Washington, D.C., September 1971. During the four years since that meeting, much interest in adhesion has been generated among six divisions of the American Chemical Society. Then, in 1974, the Macromolecular Secretariat appointed me to work closely with the six Session chairmen in organizing this Symposium on Science and Technology of Adhesion. Needless to say, the success of the Symposium which took place between April 7 and 10, 1975 in Philadelphia, Pa., is due to their excellent cooperation and the enthusiastic response of contributors. As originally planned, each division was responsible for one session, and most of the papers, including several late contributions, are published in these two volumes of proceedings.

During the Symposium, we held a banquet in honor of Professor Herman Mark in celebration of his eightieth birthday. His Plenary Lecture and the Symposium Address by Professor Murray Goodman are published in full at the beginning of the first volume. I thank Professors Mark and Goodman for their excellent presentations on this memorable occasion.

This book consists of the following eight parts including a discussion section at the end of each part:

1. Interfacial Phenomena and Adhesion
2. Synthetic Polymers and Adhesives
3. Rubber Adhesives and Sealants
4. Natural Products and Structural Adhesives
5. Growth and Change in Adhesives
6. Performance of Adhesive Joints
7. Trends in Adhesion Research
8. Surface Energetics of Printing Processes

Three papers of the last part were recently presented to the Symposium on Polymers for Lithography, August 1975, in Chicago, Illinois. On the other hand, four papers originally presented to the Symposium were published elsewhere. Thus, the order of papers in the Proceedings differ somewhat from the earlier program. The

first four parts constitute Volume 6A and the last four, Volume 6B, of the Polymer Science and Technology series.

I sincerely appreciate all those who contributed and the following session chairmen:

Professor R.J. Good, Division of Colloid and Surface Chemistry,
Dr. F.D. Petke, Division of Polymer Chemistry,
Dr. M.E. Gross, Rubber Division,
Dr. H.G. Arlt, Cellulose, Paper and Textile Division,
Dr. I. Skeist, Division of Chemical Marketing and Economics,
Dr. R.L. Patrick, Division of Organic Coatings and Plastics
Chemistry.

We acknowledge the partial assistance to two speakers by the Program Development Fund of the American Chemical Society. Lastly, I would like to express my sincere appreciation to Robert M.S. Lee, now at Princeton University, for his editorial assistance in preparing both Volume 5 and 6 for this Polymer Science and Technology Series.

Lieng-Huang Lee

September, 1975
Webster, New York
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