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### Preface

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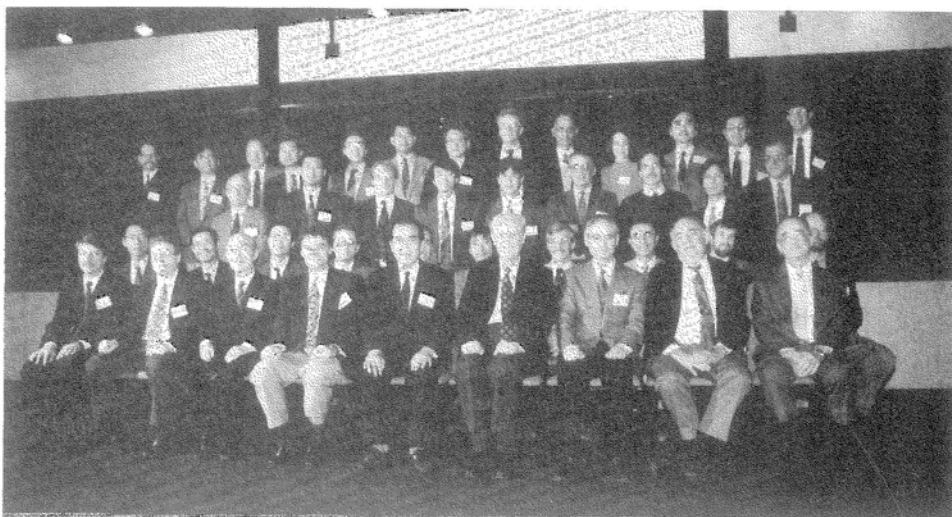
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## PREFACE

The US–Japan Symposium on Polymer Synthesis is the sixth in a series of regular bilateral seminars organized on various aspects of polymer synthesis during the past 20 years. The present, as well as the previous seminars, were sponsored by the National Science Foundation of the United States and the Japan Society for the Promotion of Science with additional support obtained from industry. These seminars are restricted to a limited number of both active participants and observers from the two countries. As a consequence, the proceedings of all these meetings have been made available to the scientific community through publication in special issues of the *Journal of Macromolecular Science—Chemistry* and now in its new version, *Journal of Macromolecular Science—Pure and Applied Chemistry*.

This series of symposia was initiated by Professors O. Vogl and J. Furukawa who also chaired the first US–Japan seminar on Polymer Synthesis under the topic “Unsolved Problems in Ionic Polymerization” [*J. Macromol. Sci.—Chem.*, A9(5) (1975)]. This meeting was organized in October 1974 and attracted 32 academic and industrial scientists to Fuji Hakone, Japan. The second seminar was held in August 1978 in Pingree Park, Colorado, under the chairmanship of Professors J. P. Kennedy and T. Saegusa. The subject of the meeting was “Functional Polymers” [*J. Macromol. Sci.—Chem.*, A13(3) (1979)]. Subsequent meetings in 1983, 1987, and 1990 were held in Osaka, Yountville, California, and Tokyo, respectively. The Osaka meeting was chaired by Professors K. Hayashi and J. K. Stille and addressed the subject of “Synthesis and Reactions of Oligomers and End-Reactive Polymers” [*J. Macromol. Sci.—Chem.*, A21(8&9) (1984)]. The 1987 meeting, entitled “Synthesis and Reactions of Specialty Polymers,” was chaired by Professors E. M. Pearce and H. Hirai [*J. Macromol. Sci.—Chem.*, A25(5–7) (1988)]. The fifth meeting was organized by Professors D. A. Tirrell and E. Tsuchida in 1990 and was entitled “Advanced Materials Based on Macromolecules” [*J. Macromol. Sci.—Chem.*, 28(11&12) (1991)].

This volume contains summaries of 26 of the 27 invited lectures delivered during the sixth US–Japan Seminar entitled “Macromolecular Design for Advanced Materials.” This meeting was held at the Doubletree Hotel in Santa Rosa, California, from November 6 to 12, 1993. This issue also contains an after-dinner lecture which Professor Otto Vogl, the initiator of this series of seminars, kindly accepted to present during a banquet held at Fountaingrove Country Club on “History of the Conception of the US–Japan Seminars on Polymer Synthesis”. This meeting was attended by 28 active participants (12 from Japan and 16 from the US) and by 16



Attendees of the US-Japan Symposium on Polymer Synthesis, Santa Rosa, California, USA, November 6-12, 1993

Speakers and observers (from left):

Front Row: K. Matyjaszewski, D. A. Tirrell, H. Hirai, V. Percec, Y. Imanishi, O. Vogl, S. Kobayashi, E. Pearce, and J. P. Kennedy

Second Row: I. Fukawa, M. Kurihara, T. Masuda, A. E. Feiring, J. P. Lawrence, Y. Chujo, L. J. Mathias, P. P. Nicholas, J. G. Woods, and R. H. Grubbs

Third Row: J. Noonan, H. Ohno, T. M. Swager, J. Sadanobu, H. Tanabe, R. J. Piccolini, R. A. Yourd, H. Oda, and G. P. Coffey

Top Row: B. Novak, K. Kataoka, R. W. Stackman, T. Amiya, E. W. Choe, T. Kajiyama, S. Tokura, J. Spanswick, D. K. Ray-Chaudhuri, C. Pugh, M. Sawamoto, J. V. Crivello, and S. MacDonald

observers from sponsoring industrial laboratories (4 from Japan and 12 from the US). All participants regretted that for various reasons three active participants (Professors T. Saegusa, S. Inoue, and C. G. Willson) and one observer (Dr. D. J. Brunelle from GE Corporate Research and Development) had to cancel their participation at this meeting. Macromolecular design for advanced materials is an extremely important and active area of research, and this was clearly demonstrated by the very productive discussions carried out during this seminar.

The financial support from the National Science Foundation, the Japan Society for the Promotion of Science, and the industrial sponsors (Amoco Chemicals

Company, BP Research, Eastman Kodak Company, General Electric Corporation, B.F. Goodrich Co., The Goodyear Tire & Rubber Company, Hoechst-Celanese, Loctite Corporation, Miles Inc., National Starch and Chemical Co., Rohm and Haas Co., S.C. Johnson and Son, Inc.) is gratefully acknowledged. We also would like to thank the Editor of the *Journal of Macromolecular Science—Pure and Applied Chemistry* for the support given during the publication of this volume. Last, but not least, we would like to thank Professors O. Vogl, D. A. Tirrell, and Coleen Pugh for valuable advice provided during the organization of this meeting.

## Chairmen:

Virgil Percec  
Case Western Reserve University  
Cleveland, Ohio, USA

Yukio Imanishi  
Kyoto University  
Kyoto, Japan