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## Foreword

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PREP'99, the yearly Symposium on Preparative Chromatography, took place 23–26 May 1999 at the Holiday Inn Golden Gateway, in San Francisco, CA, USA. This change in venue benefitted from the support of CASSS, the California Separation Sciences Society, in addition to that of our traditional sponsor, the Washington Chromatography Discussion Group. PREP'99 was attended by more than 300 participants, 42 oral communications were presented and 58 poster contributions were displayed and discussed. In addition, 26 companies exhibited their equipments, materials, and products used in preparative chromatography. This exhibit was organized to offer the attendants an opportunity to get more familiar with recent technical developments. Four symposium workshops and seven manufacturers' workshops were organized the Sunday before the meeting, during the lunches and the afternoon pauses. The format of these workshops and seminars was conducive to intense exchanges of ideas. The topics selected emphasized practical and concrete considerations, thus complementing the more fundamental aspects of the classical part of the program.

Preparative chromatography is a complex process at all levels, from its principles to method development, implementation, and equipment design. The optimization of its parameters is a multiparameter, nonlinear problem, still incompletely mastered. Besides this, the successful development of a new application requires the understanding of many physicochemical phenomena. A comprehensive knowledge of the state of the art in materials, equipment, and products, especially stationary phases, is necessary. Thus, an exhibit with ample opportunity for contact with manufacturers and suppliers complements well a scientific meeting.

Process chromatography has been practiced in industry for over fifteen years. Many can now use successfully the concepts of tag-along and displacement effects to increase the production rate. However, our level of understanding is deepening. The rapid development of fast computers is permitting the use of general programs for the optimization of the experimental conditions of a new separation. The advent of the simulated moving bed unit is making modeling by computer a necessity. Only a rich scientific program permits the clarification of the issues and variables necessary to utilize a modern technology. The quality of the presentations made at PREP'98 demonstrates the vigor of the research effort undergone in both academy and industry and the importance of the separation problems encountered in various applications.

The help of the members of the organizing committee of PREP'99, Dr. Firoz Antia (Merck & Co.), Dr. John Frenz (Genentech), Dr. Giorgio Carta (The University of Virginia), Dr. Jana Jacobson (Lygra-mura), Dr. Anita Katti (Engineering and Process Chromatography Solutions), Mr. Klaus Lohse (BTR Separations), and Dr. Joan Newburger (R.W. Johnson Pharmaceutical Research Institute), in the review of the abstracts submitted and in the organization of the program was greatly appreciated. The sponsorships of the California Separation Sciences Society and of the Washington Chromatography Discussion Group is gratefully acknowledged, as well as the support extended by NovaSep and TechniKrom for the organization of the social program. It is a pleasure to thank Mrs. Janet Cunningham, Symposium Manager, whose organizational skills allowed a successful operation of the meeting. The present volume of the *Journal of Chromatog-*

*raphy A* includes the papers submitted during the symposium. These papers represent the nature and intensity of the research carried out in preparative chromatography. We hope this volume will prove useful to those involved in this field. We are grateful to the Editor of the Symposium Volumes and to the editorial staff of the *Journal of Chromatography A* for their professionalism and dedication in producing this volume.

PREP-2000, the next meeting in the series, will take place in Washington, DC, 14–17 May 2000. It will be sponsored by the Washington Chromatography Discussion Group and will have the same format as the previous symposia.

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