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Publisher *Taylor & Francis*

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Journal of Macromolecular Science, Part A

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713597274>

Preface

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To cite this Article Carraher Jr., Charles E. and Preston, Jack(1981) 'Preface', Journal of Macromolecular Science, Part A, 15: 5, v

To link to this Article: DOI: 10.1080/00222338108056760

URL: <http://dx.doi.org/10.1080/00222338108056760>

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Preface

This issue contains papers read at a symposium, organized and chaired by us, entitled "Interfacial Synthesis". The Symposium, sponsored by the Division of Organic Coatings and Plastic Chemistry and cosponsored by the Division of Polymer Chemistry, was held on March 24-25, 1980, at the Spring National Meeting of the American Chemical Society in Houston.

The organization of this issue follows that of the Symposium. The first section, "New Frontiers and Recent Applications", illustrates the diversity in the use of the interfacial technique both industrially and on a laboratory scale. A feature of this section is the paper by Paul Morgan on the status and future of this field. Papers dealing with the application of the interfacial concept include such topics as lipids and liposomes, microcapsulation, reverse osmosis desalination and the synthesis of polydyes, copolyamides and block copolymers. In the second section, "Phase Transfer Catalysis", we were fortunate to be able to obtain papers for the Symposium and for this issue by pioneers in the field of phase transfer catalysis (PTC) and related catalysis systems. PTC currently is of strong research interest because of theoretical considerations and the likelihood of immediate industrial applications. In-depth, current and critical reviews by Mathias and Imai on PTC are featured along with descriptions of new catalysis systems. The final section, "New Polycondensation Systems", details newly developed interfacial systems, including gas/liquid systems.

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