

## Preface

Prof. R.C. Mehrotra is renowned throughout the world of Chemistry for his valuable and outstanding contribution to the fields of Adsorption indicators, Redox-titrations, Complexation reactions in aqueous and non-aqueous media, Polymetaphosphates, Alkoxides of metals, and Elemento-organic and organometallic chemistry including organosilicon chemistry. His contributions comprising more than five hundred original research papers, several review articles, treatises and excellent monographs on "Metal Alkoxides" and "Metal  $\beta$ -Diketones and Allied Derivatives", present a panoramic view of numerous new synthetic methods, structures, reactions and uses of hundreds of new derivatives containing elemento-oxygen, -nitrogen, -phosphorus, -sulphur, or -carbon bonds, and truly these constitute a multidimensional framework of elemento-organic chemistry. With this background, the idea of presenting him on the occasion of his Sixtieth Birthday a Commemorative volume entitled "New Vistas in Elemento-organic Chemistry" was conceived in July 1981.

Although a drop in the ocean of respect, regard and admiration for a dedicated researcher, the endeavour was undertaken as a tribute to his brilliance, incessant love for hard-work and a committed approach to the development of new organometallic chemistry. The immense enthusiasm of colleagues inspired us to contact the leading chemists of the world engaged in similar lines of research in fields of synthetic, inorganic and organometallic chemistry. No sooner had the requests reached them than the letters of acceptance indicating titles of articles started pouring in. We have been overwhelmed by these spontaneous enthusiastic responses and within a short period of four months, the busiest of scientists spared no effort to send us the manuscripts of review articles dedicated to their revered friend. We are highly indebted to these authors for their keen interest in the endeavour, which is a reflection of their warm feelings and admiration for Prof. R.C. Mehrotra.

This commemorative volume has been prepared by compiling those articles, which deal with a wide-range of subjects from novel aspects of chemistry of hydrogen to the complex chemistry of metalloenes. A perusal of contents would reveal that the volume should prove to be a true vista of developing fields in elemento-organic chemistry. It would have remained a thought with a few, but for the active interest of "our contributors to the volume". We are highly grateful to these authors for the untiring efforts put in by them in preparing these articles at very short notice.

On behalf of the authors and the Organizing Committee, we dedicate this volume to Prof. R.C. Mehrotra, F.N.A., on the occasion of his Sixtieth Birthday and wish him many more years of fruitful activity.

J.P. TANDON  
P.C. VYAS  
P.C. BHARARA

Jaipur,  
February 16th, 1982