



ELSEVIER

Available online at www.sciencedirect.com

SCIENCE @ DIRECT®

Journal of Organometallic Chemistry 683 (2003) 1

Journal
of Organometallic
Chemistry

www.elsevier.com/locate/jorganchem

Preface

The reactivity of the metal–carbon bond and its application in catalysis continues to provide a major driving force in organometallic chemistry. If anything, developments are accelerating, in particular with respect to the discovery of new catalysts for the polymerisation of olefins and polar monomers. While cyclopentadienyl metal derivatives continue to attract major attention, ever since the first use of titanocene dichloride/diethylaluminium chloride systems by Breslow and Newburg [1], noncyclopentadienyl ligands are becoming increasingly important to develop new types of catalysts and reagents. For example, while the foundations of metal allyl chemistry were laid by Wilke et al. about 40 years ago [2], the use of silyl-substituted allyls, heteroallyls and related non-cyclic ligands has opened up new horizons. Many of these developments were presented in 2002 at the 224th ACS National Meeting in Boston in Symposia on ‘New Developments in Metal Allyl Chemistry’ and on ‘Control of Polymer Stereochemistry Using Single-Site Catalysts’. It seemed fitting therefore to follow these symposia by a Special Issue in this journal and to

provide a flavour of state-of-the-art research on metal–carbon bond reactivity using cyclopentadienyl, allyl, azaallyl, benzamidinato, diketiminato and related complexes. I thank all the authors for their cooperation and excellent contributions which, it is hoped, will stimulate further research in this buoyant area.

References

- [1] D.S. Breslow, N.R. Newburg, *J. Am. Chem. Soc.* 79 (1957) 5072.
- [2] G. Wilke, B. Bogdanovic, P. Hardt, P. Heimbach, W. Keim, M. Kroner, W. Oberkirch, K. Tanaka, E. Steinrücke, D. Walter, H. Zimmermann, *Angew. Chem. Int. Ed. Engl.* 5 (1966) 151.

Manfred Bochmann
*Wolfson Materials and Catalysis Centre,
School of Chemical Sciences and Pharmacy,
University of East Anglia,
Norwich NR4 7TJ, UK*
E-mail address: m.bochmann@uea.ac.uk