

## Preface

The Twenty-Second International Conference on Solution Chemistry was held in Linz, Austria, from 14 July to 18 July 1991 under the auspices of the International Union of Pure and Applied Chemistry with financial support from the Austrian Federal Ministry of Science and Research and the Linzer Hochschulfonds.

One hundred and sixty-one scientists from thirty countries representing the five continents participated in this conference. The six plenary lectures covered such different areas in solution chemistry as supramolecular chemistry, solvation and reactivity, solvent effects on electrode reactions, solution chemistry at surfaces, calorimetry in pure and mixed solvents and new considerations about the solvent water. Invited lectures dealt with computational methods in solution chemistry, with molecular dynamics at the platinum/water interface, with the dissolution and nucleation of alkali halides in water and with the solvation of fluoride ions in different solvents.

Sixty-eight contributed papers and forty-five posters reflected the broad range of activities in aqueous, mixed and nonaqueous solvents. Topics covered included theoretical modelling and Monte-Carlo simulations of multicomponent electrolytes, structure determinations of solutions by x-ray and neutron diffraction, thermodynamic, kinetic, spectroscopic and electrochemical measurements, solvatochromic studies, solvation phenomena, single ion transfer properties, conductivity, complex formation especially by macrocyclic compounds, liquid-vapor and liquid-solid equilibria, hydrogen bonding and data banks for electrolyte properties.

The Twenty-Second International Conference on Solution Chemistry as solutions chemistry conferences before brought together people active in all aspects of solution chemistry sharing their experience and views in lively discussions.

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(Chairman of the Local Organizing Committee)