

Preface

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16th International Symposium on Solubility Phenomena and Related Equilibrium Processes (ISSP-16)

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The 16th International Symposium on Solubility Phenomena and Related Equilibrium Processes (ISSP-16) was held 21–25 July 2014, in Karlsruhe, Germany. The International Symposium on Solubility Phenomena and Related Equilibrium Processes (ISSP) is an established bi-annual symposium gathering international experts on solubility studies to exchange new research and concepts. ISSP-16 addressed the general importance of solubility phenomena in a variety of different settings, ranging from green chemistry to nuclear waste disposal and modern technical applications. The meeting featured a wide agenda of topics, specifically highlighting the importance of chemical thermodynamics and solubility studies both in fundamental and applied science. The conference was divided into specific sessions to allow clear focus on topics of key interest. Session topics were: investigation and analytics of aqueous speciation; aqueous solutions at high ionic strength; kinetics of phase transformations; molten salts and ionic liquids; effects of solute-solvent interactions on solubility phenomena; solubility phenomena in technical and industrial applications; and computer-assisted equilibrium calculations and related thermodynamic databases. Invited and contributed oral and poster presentations ranged from basic equilibrium measurements to advanced theoretical predictions. ISSP-16 offered a dedicated scientific platform for presenting, discussing and promoting the study of solubility phenomena and related equilibrium processes, with 116 participants from 24 countries (Australia, Austria, Bulgaria, Canada, China, Czech Republic, Denmark, Finland, France, Germany, Hungary, Ireland, Israel, Italy, Japan, Poland, Portugal, Russia, Serbia, South Korea, Spain, Sweden, Switzerland and USA), as well as the European Commission. Distinguished plenary lecturers introduced the main topics. Readers will find here several papers on the themes of plenary and keynote lectures, as well as a paper by two Franzosini award winners.

The present issue is in the Conference series “Solubility Phenomena and Related Equilibrium Processes.” The earlier issues– 15th International Symposium on Solubility Phenomena and Related Equilibrium Processes (ISSP-15), Xining, China, 22–27 July 2012, and 14th International Symposium on Solubility Phenomena and Related Equilibrium Processes (ISSP-14), Leoben, Austria, 25–30 July 2010, can be found in *Pure and Applied Chemistry*, Volume 85, Issue 11, p. iv and Volume 83, Issue 5, p. iv, respectively.

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