

# Preface

These proceedings comprise invited and contributed papers presented at the 6th International Conference “Physics of Liquid Matter: Modern Problems” (PLMMP-2014) which was held during 23–27 May 2014 in Kyiv, Ukraine. Understanding of Liquid Matter properties is the foundation stone for many scientific and engineering disciplines including physics, chemistry, chemical engineering, and materials science. It provides the basis for research in different fields from biological objects to supernovae behavior. The combination of experiments, theory, and simulation allows scientists to study the complex systems on molecular and macroscopic levels. The PLMMP-2014 Conference was organized by the Taras Shevchenko National University of Kyiv, Institute for Safety Problems of Nuclear Power Plants and Bogolyubov Institute for Theoretical Physics of the National Academy of Sciences of Ukraine. The scientific program covered the most recent developments in the broader field of liquid state, including interdisciplinary problems. The format of the conference was based on invited lectures, oral presentations, and posters. The presented papers are divided into four parts: (i) *Structure of Liquids in Confined Systems*, (ii) *Phase Transitions, Supercritical Liquids & Glasses*, (iii) *Colloids*, and (iv) *Medical and Biological Aspects*. The presented objects include liquids, solutions, soft polymers, colloids, amphiphiles, micelles, emulsions, and liquid crystals. On behalf of the organizing committee we would like to thank all the plenary and invited speakers for their valuable contributions. We would like also to thank the International Advisory Board and Local Organizing Committee for helping to organize the scientific program and operation of the PLMMP-2014 Conference.

Kyiv, Ukraine

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