Foreword

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Board of Research in Nuclear Sciences (BRNS) of the Department of Atomic energy (DAE) Government of India has been sponsoring the biennial symposium on nuclear and radiochemistry, popularly called as NUCAR since 1990. The NUCAR symposium in this series was held at Government Model Science College, R. D. University, Jabalpur, Madhya Pradesh, during February 19–23, 2013. Presentations and invited talks in the conference covered the recent progress in the areas such as nuclear chemistry, chemistry of actinides and fission products and various aspects of radiochemistry.

The conference was attended by a large number of researchers from National Laboratories, Universities and Research Institutes from India and abroad. The total number of registered participants was 347. There were 136 participants from various DAE institutes and research centers. There were 53 research students including 13 students from DAE institutes. Experts and eminent scientists from India and abroad delivered 17 invited talks and 5 invited short presentations covering various aspects of fuel reprocessing, waste management, development of methods for nuclear material characterization, studies on chemical properties of actinides and trans-actinides, use of nuclear techniques for physico-chemical studies, material characterization and application of radioisotopes in agriculture and medicines. There were 253 contributed papers on the topics, namely, nuclear chemistry and nuclear probes, chemistry of actinides and reactor materials, spectroscopy of actinides, chemistry of fission and activation products, radioanalytical chemistry, radioisotope applications, radioactivity in environment and nuclear instrumentation,

which were presented at the symposium as posters and oral presentations. It provided an opportunity for the young researchers to present their work and interact with experts. At the end of the Symposium, the best papers in oral and poster category were given awards, based on the evaluation by a committee.

We would like to thank the Editorial Board of Journal of Radioanalytical and Nuclear Chemistry (JRNC), for agreeing to bring out a special issue of the Journal containing the papers presented in NUCAR 2013. During the reviewing of the contributory papers, the reviewers were requested to mention if the paper could be considered for publication in a special issue of JRNC. The selected full papers were further reviewed by a committee constituted by the Chairman, Technical Committee of NUCAR 2013 and then submitted to JRNC for consideration for publication in the special issue. In addition, some of the invited speakers of NUCAR 2013 have been kind to submit their talks as review papers. We would like to place on record our sincere thanks to Prof. A. Chatt for his constant support and encouragement in bringing out this special issue.

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