

Preface

The field of Solid State Ionics deals with ionically conducting materials in the solid state and numerous devices based on such materials. Solid State Ionic Materials cover a wide spectrum, ranging from inorganic crystalline and polycrystalline solids, ceramics, glasses, polymers, composites and also nano-scale materials.

A large number of Scientists in Asia is engaged in research in Solid State Ionic Materials and Devices. The Asian Society for Solid State Ionics has played a key role in organizing a series of bi-ennial conferences on Solid State Ionics in different Asian countries starting from 1988. The last two conferences were held in Langkawi Island, Malaysia (2002) and Jeju Island, Korea (2004). The present conference, organized by the Postgraduate Institute of Science (PGIS) and the Faculty of Science, University of Peradeniya, Sri Lanka, is the tenth in the series and it also coincides with the 10th Anniversary of the Postgraduate Institute of Science (PGIS).

Research papers based on a wide variety of solid state ionic materials and devices are published in the proceedings. The topics cover inorganic crystalline and poly crystalline solids, ceramics, glasses, polymers, composite materials and nano-scale materials as well as devices such as solid state batteries, fuel cells, sensors, electrochromic devices and so on. The aspects covered include, theoretical studies and modeling, experimental techniques, materials synthesis and characterization, device fabrication and characterization and many more.

Our sincere thanks are extended to all the invited speakers and the authors of the contributed papers for their prompt cooperation which enabled the publication of the Proceedings in time.

We express our gratitude to all the sponsors listed in the Proceedings for their sponsorship and interest in this activity. In particular, we are grateful to the Materials Research Society of Singapore for sponsoring the entire cost of publication of the Proceedings. The International Programme in Physical Sciences (IPPS), Uppsala, Sweden has been supporting the Solid State Ionics Research Project at Peradeniya since 1984. The Director of IPPS, Prof. Lennart Hasselgren deserves our fondest gratitude. We mention with pride that the Peradeniya group completes its 20th year of solid state ionics research this year.

We are grateful to the Vice-Chancellor of the University of Peradeniya and the Dean and the Staff of the Faculty of Science at Peradeniya, and the Staff of the Postgraduate Institute of Science for their active cooperation rendered in organizing the Conference.

Last, but not least, we thank the International and Local Advisory Committees for their guidance and the Local Organizing Committee for their untiring efforts which has made this event a success.

20 April 2006

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