

Preface

The ‘Shanghai Symposium on Intermediate-energy Light Sources’ (SSILS) was held in Shanghai, People’s Republic of China from September 24-26, 2001. It was co-sponsored by the China Center of Advanced Science and Technology (CCAST), the Chinese Academy of Sciences (CAS), the International Committee for Future Accelerators (ICFA), the National Natural Science Foundation of China (NSFC) and the Shanghai Institute of Nuclear Research (SINR), and was co-organized by the Shanghai National Synchrotron Radiation Center (SSRC) and the Stanford Synchrotron Radiation Laboratory (SSRL).

The aim of SSILS was to promote international communication and collaboration in design and construction of Intermediate energy (2.0-3.5GeV) Light Sources (ILS). It attracted more than 100 scientists from 29 SR laboratories in 17 countries and/or regions. The list of participants is attached to the proceedings. The participants delivered 50 oral reports, 3 video talks, 28 posters and submitted 55 papers which are published in the present volume of conference proceedings. Almost all of the papers and oral presentations are now available on the SSILS web site.

The scientific program contains four plenary sessions, eight parallel sessions and two poster sessions. The contents are extensive and cover a wide range of topics: overview, cost, new storage ring technology including lattice design, beam dynamics, radio-frequency systems, beam stability and feedback, insertion devices, beam line technology, high power beam lines and future directions. Optimization of intermediate energy light source facilities was discussed at length. The large spectrum of high-quality contributions and the balance between theoretical work, experimental progress, new ideas and new projects indicates that conventional light source design and technology are well understood and that innovative progress will continue in the future. Besides the Symposium technical program, other activities included a tour of the prototype for Shanghai Synchrotron Radiation Facility and tours of magnificent downtown Shanghai.

Thanks to the sponsors, it was possible to support the participation of 20 highly qualified scientists and students who otherwise would not have been able to attend. Our special thanks go to the members of the organizing committee, the program committee, and especially the local organizing committee and conference secretaries. We also appreciate the Beijing Foreign Language Printing House for help in publishing the SSILS proceedings.

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