FOREWORD

Welcome to the 2000 International Symposium on Low Power Electronics and Design (ISLPED). The symposium provides a forum for the presentation of advances in low-power systems and components. All aspects of designing low-power products, from fabrication technology and circuits to systems and software, are within the scope of ISLPED. As in the past, this year's ISLPED contains a mix of invited talks and contributed papers. All invited talks will be in plenary sessions, and thus can be heard by all attendees. Most other sessions will consist of two parallel tracks, one focusing on systems and CAD and the other focusing on circuits and technology.

A total of 162 contributed papers were received. Many thanks to all the authors who submitted their manuscripts. Even with the parallel sessions, we were able to accept only 39 regular papers and 18 poster papers. Poster papers are different from regular papers in several ways. For one thing, even though they are published in the proceedings, poster papers are shorter. In addition, we will have two parallel sessions in which posters will be presented to an audience, but with only 5 minutes available for each. Finally, we will have a poster display session in which authors will stand by cardboard displays of their work, and answer questions. The intention is that the author(s) can use the 5 minute presentation time to encourage attendees to stop by later on and view the posters during the display session.

One keynote speech and two invited talks will be presented during the plenary sessions. An evening panel on the first day will feature a lively discussion on the following topic: “Do Our Low-Power Tools Have Enough Horse Power?” It should be a stimulating event of interest to all attendees. Two embedded tutorials are scheduled towards the end of the program, one on “Reliable Low-Power Design in the Presence of Deep Submicron Noise” and another on “Low-Power DSP Processors for Wireless Communications.” These tutorials will present state-of-the-art techniques employed currently in the industry as well as future trends. The symposium will conclude with a banquet that will start with a boat ride in the beautiful “Golfo del Tigullio” and a visit to local historical sites followed by dinner in the small village of Recco, featuring typical food from the Italian Riviera accompanied by famous Italian wines.

Many thanks to the technical program committee for all the hard work in paper review, paper selection, and session organization. Additional experts have also contributed to the review process, and we acknowledge their contribution. Lists of technical program committee members and of any additional reviewer can be found in the following pages. Many thanks to Lucent Technologies for generously hosting the technical program committee meeting. Thanks also to the invited speakers for graciously donating their time and to the panel organizers and panelists for what should prove to be an enlightening and entertaining evening session. Finally, we want to thank the ACM SIGDA and the IEEE Circuits and Systems Society for their sponsorship, and the IEEE Electron Devices Society for their technical support.

We hope you will find the symposium both stimulating and helpful. Please give us your comments and suggestions on any aspects of the conference.

David Blaauw & Christian Enz
General Co-Chairs

Thad Gabara & Enrico Macii
Technical Program Co-Chairs