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Preface

Twenty seven years ago, because of the tremendous increase in the power and utility of computer simulations, The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching: The Center for Simulational Physics. As the international simulations community expanded further, we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment that promoted lively discussion. As a consequence, the Center for Simulational Physics established an annual workshop series on Recent Developments in Computer Simulation Studies in Condensed Matter Physics. This year's highly interactive workshop was the 26th in the series marking our efforts to promote high quality research in simulational physics. The continued interest shown by the scientific community demonstrates quite clearly the useful purpose that these meetings have served. The latest workshop was held at The University of Georgia, February 25-March 1, 2013. These proceedings provide a "status report" on a number of important topics. This on-line "volume" is published with the goal of timely dissemination of the material to a wider audience.

We wish to offer a special thanks to the IBM Corporation for partial support of this year's workshop.

These Proceedings contain both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics. As usual, topics ranged from hard and soft condensed matter to biologically inspired problems and purely methodological advances. The trends in biophysics and network simulations, together with the presentation of results obtained using GPUs (graphics processing units) demonstrate clearly how the focus of computational condensed matter physics has changed at the start of the second quarter century of these Workshops. We hope that each reader will benefit from specialized results as well as profit from exposure to new algorithms, methods of analysis, and conceptual developments.

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