FOREWORD

Borbás, Lajos – Kiss, Rita M.
president director
borbas@kge.bme.hu *kissrit@t-online.hu*

The Biomechanical Cooperation Research Centre of the Budapest University of Technology and Economics was founded by Professor Imre Bojtár in 2002 in order to coordinate biomechanical research at the University. The Biomechanical Cooperation Research Centre is an independent association of three departments of the Faculty of Civil Engineering, seven departments of the Faculty of Mechanical Engineering, one department of the Faculty of Chemical Technology and Biotechnology, and two departments of the Faculty of Transportation Engineering and Vehicle Engineering. The fundamental duty of the Biomechanical Cooperation Research Centre is to concentrate and coordinate and increase the efficiency of the work of the departments, professors and researchers taking part in the cooperation, as well as to develop and renew the pool of assets, to promote successful participation in domestic and international tenders, to keep organized contacts with medical universities, clinics and hospitals in Hungary, and to coordinate joint research projects. The Biomechanical Cooperation Research Centre plays an active role in the foundation of the Society of Biomechanics, its current operation, and in organizing Conferences of Biomechanics.

Members of the departments pertaining to the Biomechanical Cooperation Research Centre are devoted to support doctors' work and to educate replacement. Our research does not only involve a mechanical approach but includes all attempts, procedures and ways of thinking to assist those potentially in need to make their life easier and to give hope for the future solution of medico-biological problems seeming to be unsolvable today.

Research results of the departments pertaining to the Research Centre are published in Hungarian and international scientific reviews and conference publications. Nevertheless, this is the first occasion when the most important research findings of the Centre are published in the same volume.

When compiling this volume, our intention was to present the results of the most important topics of the Research Centre as a joint achievement of experienced head researchers and PhD students working together with them. We do hope that this volume of the Biomechanical Cooperation Research Centre provides a good kaleidoscope, not only to show the versatility of certain fields of science, but also the ability of the Research Centre to adapt to changing demands, standardized but versatile at the same time.

Dear Readers,

We do hope that you will find out about those scientific results in this volume that you can use in your subsequent research work. We hope to be able to soon cooperate with you in various research projects. Have a good time reading this publication!