

Dear readers!

This issue of *Biomedical Engineering* is devoted to publications of students, postgraduate students, and lecturers of the Department of Biomedical Engineering of Bauman Moscow State Technical University (MSTU).

The national research university MSTU for many years has been involved in studies in the field of biomedical engineering and technologies of living systems. In this issue of *Biomedical Engineering*, some new results of these studies obtained in MSTU in 2012 are published. Other MSTU research papers and abstracts can be found in regular thematic issues of *Biomedical Radioelectronics* published since 1999 and in the proceedings of annual conferences Medical Technology in Public Health. From these editions, the readers of *Biomedical Engineering* can obtain additional information about the research directions of the Department of Biomedical Engineering of MSTU.

MSTU is now opening new directions in biomedical research. This research is performed by the staff of many departments and laboratories, often in collaboration with various research institutes and other scientific organizations. The collaborations have led to development of many new medical devices and systems. This issue of *Biomedical Engineering* is devoted to publications of the results of such collaborative work. The papers in this issue are written both by members of MSTU community and by their collaborators from other institutes and laboratories.

I am sure that materials published in this issue of *Biomedical Engineering* will be useful to the domestic community of biomedical engineers, physicians, and researchers, as well as to foreign scientists.

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