

Preface

Dear Readers,

the issue “Surface Engineering and Materials in Mechanical Engineering” of periodical “Materials Science Forum” summarizes papers with focus on surfaces, coatings and corrosion processes.

This topic covers following areas:

- advanced materials and trends in the formation of new surfaces and coatings,
- advanced technology in surface engineering, technology of surface preparation and cleaning,
- surface treatment technology of construction materials,
- test methods in surface treatment,
- evaluation of surfaces generated by conventional and non-conventional technology,
- degradation corrosion processes and corrosion protection of materials,
- loading of surfaces and coatings – triboprocesses.

This publication is realized by Department of Mechanical Technology and Materials, Faculty of Mechanical Engineering, Technical University of Košice, Slovakia. The issue “Surface Engineering and Materials in Mechanical Engineering” contains scientific results from universities and research institutes of some European countries.

The publication is divided into five following chapters:

- Surface Topography and Coatings
- Corrosion Processes and Corrosion Properties of Materials
- Surface Treatment of Wood
- Technological Properties of Materials for Mechanical Engineering
- Plastics and Composites

All research results contained in papers contribute to expansion of knowledge database in the area of surface engineering.

Anna Guzanová
Dagmar Draganovská
Janette Brezinová
issue editors