

## PREFACE

9. Scientific-Technical Conference "Material in engineering practice, 2014". Its content was intended for the presentation of innovative materials on the possibility of improving the properties of materials on the effects of intrinsic and extrinsic properties on the quality of the material, but also on the degradation of properties during the operation. Attention was paid to the prediction of mechanical and technology materials properties as well as modern methods for testing the characteristics of materials.

The scientific-technical conference "Material in engineering practice, 2014" was held after the ninth time since 1984. So far, eight scientific and technical conferences and their findings confirm that the idea of the exchange of experience and personnel of the technical practice of researchers is necessary and beneficial for both sides. It can be concluded that personnel from practice need not only to solve acute material problems but also to know the new solutions of material products and parts for facility reconstructions.

The knowledge about the material mechanisms of degradation during actual conditions as well as their evaluation methodology is required for safe operation and the residual life of the device currently.

The 9<sup>th</sup> conference was attended by 48 experts from practice and education. The participants were from Slovakia, Poland and Croatia. The conference took place in Herľany TUKE.

The organizers of the conference are convinced the main objective of the conference as the exchange of knowledge in the field of materials engineering has been fulfilled.

Mária Mihaliková and Ján Michal  
Chair of the Conference

# **COMMITTEES**

## **ORGANIZED BY**

Faculty of Metallurgy  
Technical University of Košice  
Slovac Republic

## **CHAIR OF THE CONFERENCE**

prof. Ing. Ján Michalík, CSc.  
doc. Ing. Mária Mihaliková, PhD.  
prof. Ing. Marián Buršák, PhD.

## **LOCAL ORGANIZING COMMITTEE**

doc. Ing. Mária Mihaliková, PhD.  
prof. Ing. Marián Buršák, PhD.  
Ing. Petra Lacková  
Ing. Miroslav Német

## **SCIENTIFIC BOARD**

prof. Ing. Emil Spišák, PhD.  
prof. Ing. Peter Palček, PhD.  
prof. Ing. Eva Tillová, PhD.  
Acad. prof. Ing. Ilija Mamuzić, PhD.  
prof. Ing. Marián Buršák, PhD.  
prof. Ing. Ján Michalík, CSc.  
doc. Dr. Ing. Peter Horňák