

Preface

The publication consists of selected conference papers from the 52nd International Scientific Conference on Experimental Stress Analysis (EAN 2014). The conference was held from the 2nd to the 5th June 2014 in Mariánské Lázně in the Czech Republic. The Conference was organized by Výzkumný a zkušební ústav Plzeň s.r.o. (Research and Testing Institute Plzeň) under the auspices of Mayor of Mariánské Lázně and Managing Director of the Research and Testing Institute Plzeň.

The conference with a long-term tradition is an opportunity to meet for specialists and professionals from universities, research institutes and industrial companies. Previous experience shows that the thematic scope comprising experimental stress analysis in machinery construction, building industry, biomechanics, verification of numerical and analytical solutions by experiments stimulates a wide exchange of opinions among the specialists from different branches close to topics of the conferences subject.

The publication includes the following issues:

- Residual stresses – measurement methods and analysis
- Development of experimental methods in mechanics
- Development of experimental methods in biomechanics
- New methods and application of deformation and stress analysis of machinery construction
- New methods and application of deformation and stress analysis of building and other constructions
- Experiment as a tool of verification of analytical and numerical methods
- Experimental research and prediction of construction and device strength, durability and reliability
- Monitoring the operational load and operational state of constructions and devices
- Methods and instruments for the teaching of experimental methods

On behalf of the Conference Scientific and Organizing Committees



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