

Preface

The 53rd conference Experimental Stress Analyses 2015 was held in Český Krumlov, in June 1 – 4, 2015. The conference was organized by Department of Mechanics, Faculty of Civil Engineering, Czech Technical University in Prague, Czech Republic.

The main objective of the conference was to bring together researchers and engineers devoting their work to experimental mechanics in different areas of engineering applications on a common platform.

The conference objectives were the following:

- New methods and applications of deformation and stress analysis in mechanical engineering, civil engineering and other structures.
- Development of experimental methods in mechanics and biomechanics.
- Experiment as a tool for the verification of analytical and numerical methods.
- Experimental research and prediction of strength, life and operational reliability of structures and devices.
- Monitoring of operational loadings and operational states of structures and devices.
- Methods and means of teaching experimental methods.
- The experimental dynamics.

We strongly believe that EAN 2015 has a significant impact on the development of contemporary analytical, experimental and numerical methods in mechanics and will also create an opportunity for opening a forum for discussion and collaboration among the participants.

This special Issue of the Applied Mechanics and Materials Journal contains the selected papers presented in the topic of the conference on Experimental Stress Analyses 2015. All papers were reviewed by reviewers.

We would like to express our special thanks to all members of scientific and organizing committee, session chairperson, reviewers of papers, sponsors, support activities of Conference Partners Prague s.r.o. and conference participants for making this conference successful. Especially I would like to express a big thank to Petr Bittnar and Pavel Tesárek for thoroughness and a great effort devoted to the preparation of the proceedings.

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