

Preface

Regular traditional conference on Metallography, Fractography and Materials Science “Metallography & Fractography 2019” jointly take place between 24th - 26th April 2019 in the High Tatras Mountains in the Slovak Republic. The tradition of these conferences was established by Professor Ivan Hrivňák, the founder of physical metallurgy in Slovakia. The conference was established in 1969, is organizing in the three-year interval and this particular edition was the 17th already.

These conferences have featured as important events for the presentation of results achieved in materials science and engineering. The conference focus widened long ago to cover not only the field of metallic materials but also numerous modern materials and technologies as well. The participants come from universities, academic research institutions and different branches of industry not only from all corners of Europe but from overseas as well with an interest in materials science and engineering. Exhibitions of instruments and equipment make it possible for the participants to acquaint themselves with recent achievements in research and investigation technology. The ambition of the conference is regularly to expand the programme to cover new approaches, new advanced materials, and technologies, new findings in fundamental research as well as in practical production.

We are very grateful to all authors who presented their actual research in the form of invited papers, lectures and posters. The papers presented at the conference reflect the actual state of knowledge and the most important subjects that materials science deals with. Our special thanks are going to the Chairman of the International Scientific Committee Akio Nishimoto from Japan and also to all members of this Committee for their help and advice in the preparation of the conference. One big thank is also due to all the session chairs, who directed the programme. We also would like to acknowledge the work of all reviewers for their skilled and responsible judgement of all manuscripts to improving the scientific quality of submitted papers. We would like particularly obliged to the members of the Organizing Committee for their practical help in preparing the conference and the Proceedings. We also appreciate the publishers of this journal for their support with the preparation of Proceedings.

We are also very grateful to Stanislav Kmet', Rector of the Technical University of Košice, Pavol Hvizdoš, Director of the Institute of Materials Research of Slovak Academy of Sciences, Iveta Vasková, Dean of the Faculty of Materials, Metallurgy and Recycling of the Technical University of Košice, and Martin Fujda, Head of the Institute of Materials and Quality Engineering, Faculty of Materials, Metallurgy and Recycling at the Technical University of Košice, for their help during the conference preparation.

We would like to acknowledge the assistance and support that we received from all co-organizers, several individuals and organizations in the preparation of this symposium.

The success of this conference first at all depended on the quality of the research of all participants and their enthusiasm for topics of metallography, fractography and materials science. Therefore, we would like to thank all the participants for contributing to the fruitful and convivial atmosphere of the conference which also implies from the stimulating and fascinating surroundings of the conference locality in Nový Smokovec, the heart of the High Tatras Mountains.

Košice, December 2019

Peter Horňák, Margita Longauerová and Miloš Matvija

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Date of the Conference: 24th – 26th April 2019

Place of the Conference: Atrium Hotel, Nový Smokovec, High Tatra Mountains, Slovakia

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Photo of Conference Participants (25th April 2019)

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