

Preface

The anniversary tenth edition of the International Conference on Materials Science and Engineering – BraMat (**B**rasov **M**aterials) was successfully occurred from March 8 to March 11, 2017 at the “Sergiu T. Chiriacescu” Aula of the Transilvania University of Brasov.

BraMat International Conference 2017 was organized by “Transilvania” University of Brasov – Faculty of Materials Science and Engineering in cooperation with Academy of Technical Sciences from Romania, the Foundry Technical Association of Romania, the Association for Heat Treatment and Surface Engineering and the Romanian Welding Society.

The conference’s contributions have been presented, oral or poster, in the frame of eight sections of the conference, as follows: (1) Metallic materials, (2) Biomaterials, (3) Ceramics, polymers and composite materials, (4) Surface engineering, (5) Nanomaterials, (6) Welding engineering, (7) Safety engineering and (8) Magnesium science and engineering.

Thanks to the success of the previous editions, it was a great interest for BraMat 2017 on behalf of academic institutions, research institutions and industry. The conference program supposed 9 plenary papers, 12 keynote presentations, 65 oral presentations and 114 posters. At the same time seven important companies, which manufacture equipment for processing and characterizing materials, organized special showrooms during the whole event, in order to present the latest equipment on the market. Out of all papers presented at conference, the authors have chosen to publish 38 of their contributions in Materials Science Forum journal edited by Trans Tech Publications.

We would like to express our entire gratitude to all the reviewers for their great professionalism and effort and to thank all the participants and sponsors for their valuable contributions and support for making BraMat 2017 a genuine success. Last but not least, special thanks to Trans Tech Publications for dedicating this issue to BraMat 2017 international conference.

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