

Preface

Starting with 1999, the International Conference on Materials Science and Engineering – BraMat (Brasov Materials), organized every odd year in Brasov at Transilvania University, is one of the main important scientific events in the field of Materials Science and Engineering, from Romania and Europe. The ninth edition was successfully occurred from March 5 to March 7, 2015 at the “Sergiu T. Chiriacescu” Aula of the Transilvania University of Brasov.

BraMat International Conference 2015 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 the traditional sections of the conference, as follows: Equipment and Technologies in Materials Engineering, Materials Science, Heat Treatment and Surface Engineering, Advanced Welding Eco-Technologies and Safety, Modelling and Simulation in Materials Engineering.

Thanks to the success of the previous editions, it was a great interest for BraMat 2015 on behalf of academic institutions, research institutions and industry. The conference program supposed 15 plenary papers, 63 oral presentations and 164 posters. At the same time a lot of important companies, which manufacture equipment for processing and characterizing materials, organized showrooms during the whole event, in order to present the latest equipment on the market. Out of all papers, 69 authors have chosen to publish their contributions in Advanced Materials Research journal edited by Trans Tech Publications. Following the peer-review process, 51 papers were accepted to be published and we are kindly inviting you to read them in the following pages.

We would like to offer our 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 2015 a genuine success. Last but not least, special thanks to Trans Tech Publications for dedicating this issue to BraMat 2015 international conference.

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