

Proceedings of the 12th International Conference
“Ion Implantation and Other Applications
of Ions and Electrons”, ION 2018

Kazimierz Dolny, Poland, June 18–21, 2018

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Preface

The XII International Conference on Ion Implantation and Other Applications of Ions and Electrons — ION 2018, held in Kazimierz Dolny, Poland, 18–21 June 2018, was organized by the Maria Curie-Skłodowska University in cooperation with the Universities of Technology of Lublin and Wrocław.

The present Conference was the twelfth in a series of biennial meetings that began in 1996. As with previous editions, ION 2018 focused mainly on ion implantation. Although the technique has been in use in electronic industry for decades, there still remain many phenomena involved in the implantation process and its applications that are of considerable interest, for both fundamental science and also for new developments in materials science. The following topics were of particular interest in the ION 2018 Conference:

- formation and modification of subsurface layers of metals, semiconductors and insulators by ion implantation and post-implantation annealing,
- microstructural investigations of swift heavy ion-induced latent tracks,
- mechanical investigations of ion-implanted coatings,
- plasma and electron beam processing of materials,
- application of positron annihilation spectroscopy for studies of radiation defects,
- computer simulations of ionization processes in ion sources.

Eighty participants attended the ION 2018 Conference in Kazimierz Dolny. During the Conference sessions 18 invited talks and 12 short oral contributions were given, as well as 57 posters were presented, focused on specialised areas of research from pure science to applications. The Young Scientists Contest for the best oral presentation was held with twelve participants.

The organization of the Conference was made possible by the efforts of many people. Special thanks are due to all the members of the Organizing Committee and personally to Mr. Janusz Filiks. Finally, we acknowledge financial support from the Joint Institute for Nuclear Research, Dubna.

The next International Conference on Ion Implantation and Other Applications of Ions and Electrons ION 2020 will also be held in beautiful little town of Kazimierz Dolny, Poland, 22–25 June 2020.

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