

Proceedings of the 41th “Jaszowiec”
International School and Conference
on the Physics of Semiconductors

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Preface

This issue of *Acta Physica Polonica A* contains 45 contributed papers presented during the 41st International School and Conference on the Physics of Semiconductors “Jaszowiec 2012” which took place in Krynica-Zdrój, Poland, on June 8th – June 15th, 2012. This traditional meeting of the Polish and the international semiconductor community has been organized since 1970. The last event was organized by two institutes of the Polish Academy of Sciences: Institute of Physics and Institute of High Pressure Physics; two institutes of the Faculty of Physics, University of Warsaw: Institute of Experimental Physics and Institute of Theoretical Physics; Foundation “Pro Physica”, and Committee on Physics of the Polish Academy of Sciences.

The School and Conference was attended by 234 participants from 15 countries. The scientific program consisted of 20 invited lectures, and 192 contributed papers (20 chosen for oral presentation and 172 posters). The scope of the conference covered essentially all research fields in semiconductor physics, including technology, experiment, theory and modeling. Special accents were put on the physics of semiconductor nanostructures, spintronics, physics of graphene and properties of wide band-gap semiconductors. The Conference was preceded by the School (tutorial session), addressed mainly to young scientists. During the School outstanding scientists gave four lectures providing an introduction to important fields in semiconductor physics: condensation of polaritons in semiconductors, physics of graphene, photovoltaics based on silicon nanostructures and spin-noise spectroscopy.

Organizers of the School and Conference in 2012 would like to acknowledge the financial support from the Ministry of Higher Education (Poland), Polish Academy of Sciences, University of Warsaw, the U.S. Army Forward Element Command Atlantic and from the European Regional Development Fund projects POIG 01.01.02-00-108/09, POIG 01.01.02-00-008/08, POIG 02.01.00-14-122/09, as well as from the commercial sponsors: Eurotek International, Hamamatsu, Oxford Instruments, Labis, and Amecam.

We would like to thank the members of the International Advisory Committee and the Program Committee for their contribution to the scientific program of the School and the Conference. We would like also to express our gratitude Łukasz Kłopotowski, the Chairman of the School, as well as other members of the Organizing Committee, Agnieszka Jędrzejewska and Maciek Zajączkowski for their enthusiasm and excellent work.

Piotr Kossacki (*Chairman*)

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