

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

Krynica-Zdrój, Poland, June 19–24, 2010

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Preface

This issue contains some of the papers presented at the XXXIX “Jaszowiec” International School and Conference on the Physics of Semiconductors, Krynica-Zdrój, Poland, June 19–24, 2010. This traditional meeting of the Polish and international semiconductor community has been organized annually by several Polish scientific institutions since 1970. The last event was organized jointly by the Institute of Physics of the Polish Academy of Sciences, the Faculty of Physics of University of Warsaw (Institute of Experimental Physics, Institute of Theoretical Physics), and the Institute of High Pressure Physics of the Polish Academy of Sciences. It took place in the mountain resort Krynica-Zdrój gathering about 252 scientists from various countries.

The program of the School and Conference included 4 three-hour long tutorial lectures, 24 invited talks, and 198 contributed (oral and poster) presentations devoted to almost all research fields in the semiconductor physics, such as technology, experiment, theory, and modeling. This volume contains 3 invited papers followed by 45 contributed ones that have been ordered according to the following topics: (1) quantum transport, graphene, carbon nanotubes, (2) quantum wells, 2D systems, (3) quantum wires and quantum dots, (4) spintronics and spintronic materials, (5) nitrides and ZnO, (6) various materials and phenomena, impurities.

Organizers of the School and Conference in 2010 would like to acknowledge the financial support from the Ministry of Science and Higher Education, the Polish Academy of Sciences, University of Warsaw, Foundation *Pro Physica*, as well as from the commercial companies COMEF — Scientific and Research Equipment, and Oxford Instruments.

We invite all researchers in the fields related to the semiconductor physics to present their achievements during next “Jaszowiec” conferences in Krynica-Zdrój. Please visit the conference website (www.ifpan.edu.pl/jaszowiec) for information on the previous and actual events.

Bogdan J. Kowalski (*Chairman*)
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