

PROCEEDINGS OF THE 3RD INTERNATIONAL
SCHOOL AND SYMPOSIUM
ON SYNCHROTRON RADIATION
IN NATURAL SCIENCE
Jaszowiec, Poland, May 31–June 8, 1996

Organized by Polish Synchrotron Radiation Society

Part I

Editor of the Proceedings
Jerzy Konior

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**POLISH ACADEMY OF SCIENCES
INSTITUTE OF PHYSICS**

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PREFACE

The *3rd International School and Symposium on Synchrotron Radiation in Natural Science*, ISSRNS'96, was held in Jaszowiec, Poland, at the "Gwarek" Hotel, from the 31st of May to the 8th of June. The eight-day School was attended by about 116 participants from 16 countries. It was organized by the Polish Synchrotron Radiation Society, a nonprofit nationwide organization established in 1991. The Society joins the researchers from different Polish and foreign scientific institutions who are interested in application of synchrotron radiation (SR) in their studies.

The ISSRNS'96, which followed the first and the second Schools organized in Jaszowiec in 1992 and 1994, aimed at continuing the cycle of the SR users meetings. The main objectives of the School were:

- to propagate the experimental techniques based on synchrotron radiation and the relevant ones for application in different branches of the exact and natural sciences, like physics, chemistry, material science, molecular biology, medicine etc.;
- to give scientists from different countries an opportunity for discussing various aspects of application of the SR in their research programs;
- to enhance the East-West research collaboration by establishing new contacts which could provide the scientists from the Central and Eastern Europe countries (who do not have any SR sources) an access to the western SR facilities.

The scientific program included 33 lectures delivered by the specialists who had been invited by the International Program Committee (a complete list given below). It covered various topics related to the application of synchrotron radiation. The contributed papers were presented during two poster sessions.

These volumes of Proceedings (Parts I and II) contain some of the invited lectures and most of the contributed papers presented at the ISSRNS'96.

Preparation of the School and its success would not be possible without contributions of the sponsors, listed above. The Organizing Committee feels indebted to the European Synchrotron Radiation Society for its financial support of our conference budget which covered conference costs for 10 persons.

The ISSRNS'96 organizers gratefully acknowledge the assistance of the International Advisory Board for their helpful suggestions, the efficient work of the International Program Committee in contributing to the selection of invited papers, and all the Invited Lecturers for their valuable presentations at the School and their help in refereeing the contributed papers.

The members of the Organizing Committee deserve also special recognition for their assiduous labor in planning and implementing the meeting.

Finally, the Editor would like to thank all the participants in ISSRNS'96 for their contributions and friendly collaboration during preparation of the Proceedings.

Special acknowledgement is also addressed to the staff of the Editorial Office of the journal *Acta Physica Polonica A*, who did all the efforts to speed up publishing of these Proceedings.

Marta Zimnal-Starnawska
Jerzy Konior
Institute of Physics, Jagellonian University, Cracow

LIST OF INVITED SPEAKERS

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E. Burattini (Italy)	G. Margaritondo (Switzerland)
M. Colapietro (Italy)	G. Materlik (Germany)
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