



Preface

The 42nd Polish Seminar on Positron Annihilation (PSPA) continues the long tradition of meetings inaugurated in 1966 by a group from the University of Wrocław. Since 2009 the organization of seminars passed to the hands of the Lublin positron group at the Institute of Physics of Maria Curie-Skłodowska University, and this year the PSPA seminar was held in Lublin.

The purpose of 42nd PSPA was to gather the people interested in the research related to the annihilation of positrons and positronium in order to exchange ideas concerning new experimental and theoretical results in this field.

In the framework of this conference a special session, honoring the 40 years of positron annihilation studies in Lublin took place. Professor Goworek summarized his own contribution to the development of annihilation research by the Lublin group.

The programme included 8 invited talks, 20 oral presentations and 16 poster presentations which were

split into seven sessions concerning: methods, techniques, theory, soft matter, defects, porous materials and new materials. It is worth to mention that the subject of the seminar has been extended to technical and theoretical topics related to the construction of a new type of the PET scanner. Some novelty were applications based on positron annihilation in the investigation of new classes of materials. Twenty papers were prepared to publish them in this special issue of "Nukleonika", 17 of them presented original results, while three invited lectures have been presented in a form of review articles (authored by Ewa Dryzek, Grzegorz Karwasz and Radosław Zaleski).

The organizers are grateful to all participants, lecturers and reviewers for their contribution to the seminar and preparation of papers presented in this volume.

Bożena Zgardzińska
Guest Editor

