



The International Conference on Development and Applications of Nuclear Technologies, NUTECH 2023, Krakow, Poland, 20–22 September 2023

On September 20–22, 2023, the University of Science and Technology in Kraków (AGH) was honored to host the International Conference on Development and Applications of Nuclear Technologies NUTECH 2023, organized in cooperation with the Institute of Nuclear Chemistry and Technology (INCT), Polish Chemical Society and the Polish Nuclear Society (PTN).

The conference has a long tradition in Poland. It has been organized periodically as National Symposia on Applications of Nuclear Techniques in Industry, Agriculture, Medicine and Environment Protection, since 1960 almost every three years and from 2008 it attained the international status.

After previous hybrid NUTECH 2020 conference organized in the period of COVID-19 pandemic all

participants were looking forward to meeting in person next time. Fortunately, no obstacles were encountered this time and the NUTECH 2023 conference was held at AGH University of Science and Technology campus. The main aim of the NUTECH 2023 conference was to bring together scientists working in the field of nuclear and radiation technologies to facilitate scientific contacts and collaboration among this community. More than 100 scientists from all over the world, representatives of 28 countries, from all continents except for Australia participated in the conference. A total of 108 abstracts were submitted to the conference, 62 oral presentations, and 46 poster presentations.

We were pleased to host representative of the dean's authorities of Faculty of Energy and Fuels



Prof. Konrad Świerczek, who welcomed the conference participants.

We were also honored to host invited speakers: Prof. Suresh Pillai, Prof. Xavier Coqueret, Prof. Dr. Ulrich W. Scherer and Mr Paul Wynne and representative of the International Atomic Energy Agency Ms Celina Horak.

The sessions were dedicated to the achievements and the future of nuclear energy, radioisotopes and medical application of ionizing radiation, dosimetry and radiological protection and radiation technologies and applications. Special session dedicated to the project DEsire was also organized.

We would like to thank the conference co-chairs Prof. Katarzyna Szarłowicz, Prof. Andrzej G. Chmielewski and Dr. Paweł Gajda, the scientific committee chaired by Prof. Jerzy Cetnar and organizing committee chaired by Prof. Katarzyna Szarłowicz for their valuable help and involvement, which make NUTECH 2023 a great success.

We would like to thank all participants who, with their participation, contributed to the high scientific level of the conference.

This Special Issue of “Nukleonika” contains a selection of the papers presented at the NUTECH

2023 Conference. It may serve as an overview of international activities and contributions to research on nuclear and radiation technologies. Our sincere thanks go to all members of the Scientific Committee of the NUTECH 2023 for support in nominating the invited speakers and maintaining the high standard of this conference. Due to the efforts of the authors as well as the dedication of the reviewers, this Special Issue satisfies the scientific and publishing standards.

We would like to also acknowledge the institutions that supported the NUTECH 2023: Ministry of Education and Science, Ministry of Climate and Environment, Polish National Atomic Energy Agency and Mayor of the City of Kraków for their honorary patronage of the conference.

Last but not least, we would like to thank sponsors of the conference IRtech, ICHNP, Canberra-Packard, Institute for Sustainable Energy for their support.

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NUKLEONIKA Special Issue Guest Editors