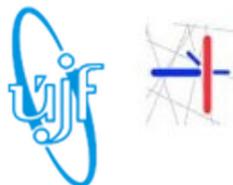
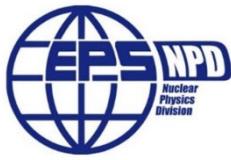


Editorial



Center of Accelerators
and Nuclear Analytical Methods

The first Applied Nuclear Physics Conference ([ANPC 2021](#)) was held in Prague, Czech Republic, 12-16 September 2021. The European Physical Society (EPS) introduced the new Applied Nuclear Physics Conference promoted by the Nuclear Physics Division (NPD) of EPS. The objective of the NPD EPS is to contribute to the advancement of nuclear physics in Europe and neighbouring countries by providing a forum for networking of scientists, discussion of scientific subjects, and supporting the knowledge dissemination in the field of nuclear sciences via common events like, e.g., conferences.

The ANPC conference provided an open forum for scientists and engineers working in the wide field of nuclear applications with particular emphasis on energy, health, space, environment, materials science, and preservation of cultural heritage. This was a unique opportunity for scientists from these different communities to exchange views and foster synergies to find new ways and horizons to the challenges in their fields. Moreover, the ANPC offered an overview of the current state-of-the-art to young researchers and students, via numerous lectures presented by leading scientists in a broad range of nuclear physics applications. The hybrid conference, organized by the Nuclear Physics Institute of the Czech Academy of Sciences (NPI), Czech Republic, was chaired by Anna Mackova (NPI) and co-chaired by Jan Kucera (NPI) and Jan John (Faculty of Nuclear Science and Physical Engineering, Czech Technical University, Prague, Czech Republic). ANPC hosted 124 registered participants, 66 onsite and 58 online.

We are very proud that ANPC hosted two IBA-Europhysics prize winners as plenary and invited speaker, Marco Durante (GSI, Biophysics Department and Technische Universität Darmstadt, Germany, awardee 2013) and Thomas Haberer (Heidelberg University Hospital, Germany, awardee 2020). ANPC was honoured by the opportunity to also host the IBA-

Europhysics prize ceremony, where Thomas Haberer received the prize from the hands of the NPD EPS member Iva Bogdanovic Radovic (Ruder-Boskovic Institute, Croatia).

We are very grateful that ANPC was carefully managed and supervised by the International Advisory Board including leading scientist in nuclear physics from Europe as well as non-European countries which recommended and promoted the invited and plenary speakers. The scientific program has been put together with great responsibility by the International Program Committee. ANPC offered a variety of excellent speakers from the ion beam physics community working in material science, nuclear physics applications in medicine, environmental and cultural heritage studies. ANPC provided a total of 5 plenary talks, 26 invited talks, 56 contributed talks and 35 poster presentations.

We would like to thank all sponsors and exhibitors to make our event attractive and fruitful. Particularly, we thank the following scientific institutions and companies: iThemba LABS (Laboratory for Accelerator Based Sciences), Center of Accelerators and Nuclear Analytical Methods of NPI, National Electrostatics Corporation, Vakuum Servis, Vakuum Praha, Pfeiffer Vacuum, Specion and Jan Evangelista Purkyne University in Usti nad Labem. MDPI Publishing supported and promoted the ANPC conference and the Best Poster Award.

The ANPC Proceedings are a collection of the contributed papers presented in the following sections

- Ion Beam Analytical Methods in Material Science,
- Ion and Neutron Beam Irradiation of Materials,
- Nuclear Physics for Energy and Space Technologies,
- Nuclear Analytical Methods for Environmental and Cultural Heritage Studies,
- Nuclear Physics in Medicine.

We believe that ANPC proved to be a very attractive platform for interdisciplinary scientific discussions and will open new synergies between various nuclear physics applications. It was proposed to organize the ANPC conference every 3 years. The place and chair for hosting the next ANPC will be selected by the EPS NPD soon. Sincerely

Anna Macková

Katharina Lorenz

André Vantomme

ANPC Proceedings
Editors

