



## KONWERSATORIUM INSTYTUTU FIZYKI UMCS

18.05.2023 r., (czwartek) godz. 11<sup>15</sup>, Aula IF im. St. Ziemeckiego

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### **Energy for the future, or why we need nuclear power**

Current situation in the world and in Europe clearly points to the pedestal importance of clean, reliable and predictable energy sources. Free from political pressures of any kind. During the lecture I will try to present arguments why nuclear energy is the optimal choice. In the short and medium term, based on uranium, in the far term, on thermonuclear fusion. Current concepts of Generation IV reactors, problems, risks and costs related to the implementation of nuclear power will be discussed. Further on, the tasks and challenges faced by scientists working in the field of material research will be discussed as well. In the last part of the talk I will present the current state of material research in the NCBJ, new equipment owned and opportunities offered by a broad international cooperation programs such as the Teaming project, Joint Project Nuclear Materials platform or the future Co-funded European Partnership (CEP) project.

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Uprzejmie zapraszam wszystkich pracowników, doktorantów i studentów Instytutu Fizyki.

Prof. dr hab. Ryszard Zdyb  
Dyrektor IF UMCS