



11. INTERNATIONAL SCHOOL ON NUCLEAR POWER MIĘDZYNARODOWA SZKOŁA ENERGETYKI JĄDROWEJ



PROGRAM

15-18 May 2023 • WARSAW



Narodowe Centrum Badań Jądrowych
National Centre for Nuclear Research
ŚWIERK

JRC collaboration partner



Wydział Mechaniczny
Energetyki i Lotnictwa

POLITECHNIKA WARSZAWSKA



polski atom



HARMONOGRAM

15 may Monday	16 may Tuesday	17 may Wednesday	18 may Thursday
WORKSHOPS 1. National Centre for Nuclear Research and Radioactive Waste Management Plant (ZUOP) in Świerk 2. National Radioactive Waste Repository in Różan	MAIN SESION LECTURES	MAIN SESION LECTURES	WORKSHOPS 1. National Centre for Nuclear Research and Radioactive Waste Management Plant (ZUOP) in Świerk 2. National Radioactive Waste Repository in Różan
	details pages 3-4	details pages 5-6	
Organizer: National Centre for Nuclear Research	Organizers: Ministry of Climate and Environment, National Centre for Nuclear Research, Warsaw University of Technology		Organizer: National Centre for Nuclear Research

MAIN SESSION - LECTURES

16 may 2023 – Tuesday

The lectures will be held at the Center for Innovation and Technology Transfer Management of the Warsaw University of Technology (CZLiTT PW) ul. Rektorska 4

After each lecture there will be 5 minutes for questions and discussion

08:00-09:00	Registration of participants
09:00-09:15	<p>Opening of the School dr Marcin Kardas, Deputy Director, Innovation & Commercialisation of the National Centre for Nuclear Research, Poland prof. dr hab. inż. Janusz Frączek, Dean of the Faculty of Power and Aeronautical Engineering, Warsaw University of Technology, Poland Grzegorz Bunda, Ministry of Climate and Environment, Poland</p>
<p>NUCLEAR ENERGY PROGRAM IN POLAND Chairman: dr Marcin Kardas, Deputy Director of the National Centre for Nuclear Research, Poland</p>	
09:15-09:45	<p>Status of the Polish Nuclear Power Program. Involvement of Polish industry in the construction of nuclear power plants Andrzej Sidło, Ministry of Climate and Environment</p>
09:50-10:20	<p>Construction program of the first nuclear power plant in Poland Piotr Dobrzyński ,PEJ sp. z o.o., Poland</p>
10:25-10:55	<p>Cooperation of a nuclear power plant with the power system Robert Paprocki, Polskie Sieci Energetyczne S.A., Poland</p>
11:00-11:30	<p>From ambitious presentation to synchronization: the way to the construction of a real power plant Adam Rajewski, Vice-President of the Management Board of Nuclear.pl Foundation, Poland</p>
<p>11:35-12:05 Coffee break</p>	
<p>NUCLEAR TECHNOLOGIES FOR ELECTRICITY PRODUCTION Chairman: dr inż. Andrzej Strupczewski prof. NCBJ, National Centre for Nuclear Research</p>	
12:05-12:35	<p>Construction and commissioning of AP1000 light water reactors Mirosław Kowalik, Westinghouse Electric Poland sp. z o.o., USA, Poland</p>

NUCLEAR TECHNOLOGIES FOR ELECTRICITY PRODUCTION	
Chairman: dr inż. Andrzej Strupczewski prof. NCBJ, National Centre for Nuclear Research	
12:40-13:10	Construction of nuclear power plants with APR1400 light water reactors Euisik Won, Korea Hydro and Nuclear Power Corporation, Korea
13:15-13:45	Nuclear power in France – main features of EPR and perspectives René Levy, FRAMATOME, France
13:50-14:50 Lunch	
NUCLEAR TECHNOLOGIES FOR COGENERATION IN INDUSTRY	
Chairman: dr hab. T. Kozłowski, prof. University of Illinois Urbana-Champaign/NCBJ	
14:50-15:20	Small modular reactor (SMR) technologies for industry prof. dr hab. inż. Wacław Gudowski, National Centre for Nuclear Research, Poland
15:25-15:55	Research and demonstration High-Temperature Gas Reactor HTGR for cogeneration dr Agnieszka Boettcher, National Centre for Nuclear Research, Poland
16:00-16:30	The process of Small Modular Reactors (SMR) implementation in Poland Piotr Walczak, Senior Project Manager, ORLEN Synthos Green Energy sp. z o.o.
16:35-17:05	BWRX-300 Reactor Andrew Huffman, GE Hitachi Poland
17:10	End of session

17 may 2023 – Wednesday

The lectures will be held at the Center for Innovation and Technology Transfer Management of the Warsaw University of Technology (CZLiTT PW) ul. Rektorska 4

After each lecture there will be 5 minutes for questions and discussion

NUCLEAR OPERATION AND SAFETY Chairman: dr inż. Grzegorz Niewiński, prof. Warsaw University of Technology	
09:00-09:30	Overview of IAEA design safety requirements for nuclear power plants Jorge Luis Hernandez, International Atomic Energy Agency (IAEA)
09:35-10:05	Licensing and nuclear safety requirements Andrzej Głowacki, President of National Atomic Energy Agency, Poland
PUBLIC AWARENESS AND NUCLEAR ENERGY FOR SOCIETY Chairman: prof. dr hab. Grażyna Zakrzewska-Kołodziejczyk, IChTJ.	
10:10-10:40	Nuclear Energy in a mix with renewable sources Rauli Partanen, Finland (author of the book „The dark horse”)
10:45-11:15 Coffee break	
11:15-11:45	Ionizing radiation and nuclear energy dr Krzysztof Fornalski, PEJ sp.z. o.o., Faculty of Physics Warsaw University of Technology, Poland
11:50-12:05	Radiopharmaceuticals: how to design and obtain? dr Izabela Gieszykowska NCBJ/POLATOM
12:05-12:20	Radiopharmaceuticals: how to implement to apply to the patient? dr Wioletta Wojdowska NCBJ/POLATOM
12:25-12:55	Radioactive waste management (TBC) Marcin Kwaśniewski, Radioactive Waste Management Plant, Poland

13.00-14.00 Lunch	
CHALLENGES FOR THE POLISH INDUSTRY DURING CONSTRUCTION OF NUCLEAR POWER PLANTS Chairman: prof. dr hab. W. Gudowski, National Centre for Nuclear Research	
14:00-14:30	Involvement in Polish Nuclear Energy Program (PPEJ) Wojciech Majka, President of Ecol sp. z o.o.
14:35-15:05	The role and place of UDT in the implementation of the PPEJ Konrad Zasada, Urząd Dozoru Technicznego, Polska
STAFF PROSPECTS FOR THE POLISH NUCLEAR ENERGY SECTOR AND NEW NUCLEAR TECHNOLOGIES IN THE WORLD Chairman: dr hab. inż. E. Fornalik-Wajs, prof. AGH	
15:10-15:40	Previous experience and plans for the future in the field of education for Polish Nuclear Energy Program prof. dr hab. inż. Janusz Wojtkowiak, Poznań University of Technology
15:45-16:15	HTGR reactor for University of Illinois Urbana-Champaign campus dr hab. T. Kozłowski, prof. University of Illinois Urbana-Champaign/NCBJ
16:20-16:50	Nuclear drives in space exploration prof. dr hab. Mariusz Dąbrowski, National Centre for Nuclear Research, Poland
16:55	End of session