



PROGRAM – DRAFT

1st TECHNICAL WORKSHOP

Advanced technics/technologies in nuclear industry

13-14 September 2023

as a side event of

1st Nuclear Power Industry Congress (12-13 September 2023)

----- 13 September 2023 -----

**Venue: IT Center of AGH University of Science and Technology in Cracow, Poland,
ul. Kawiorzy 21, 30-055 Cracow, room 1.38 (aula)**

14:00 - 15:00 Lunch

15:00 - 19:00 THEMATIC SUBSESSIONS

Opening remarks – Andrzej SIDŁO, Ministry of Climate and Environment, Nuclear Energy Department

I. Innovation in nuclear supply chain, megaproject management, commercial grade dedication approach

Moderator: Prof. Waław GUDOWSKI, National Center of Nuclear Research Poland/Royal Institute of Technology (KTH) Sweden

15.10 – 15.50 *Localization strategies of nuclear projects, How to put together national competencies and global suppliers, Q/A, EGIS Groupe France*

15.50 – 16.30 *Commercial Grade Dedication (CGD) of Equipment for Safety-Related Applications in the Nuclear Industry, Q/A, Artur BIAŁAS, Curtiss-Wright Nuclear Canada*

16.30 – 17.10 *Project management support: management of nuclear specific procedures, Q/A, Kirsi HASSINEN, Platom Oy Finland*

17.10 – 17.25 Coffee/Tea break

17.25-18.25 *From concepts to reality: A Journey through Nuclear Modeling and Digital Twins, Q/A, Victor RICHEL, Jérémy BOURDON, Christophe FOURNIER, Assystem France*

II. Building information model (BIM), digitalization and innovative I&C systems based on AI (1/3).

Moderator: PhD Jacek MAGIERA, Cracow University of Technology

18.25 – 19.00 *Digitalization of nuclear engineering units, Q/A, Gaspard MESTROT, Framatome DTI France*

19.00 SUMMARY OF THE FIRST DAY OF THE TECHNICAL WORKSHOP



----- 14 September 2023 -----

08:00 - 08:30 Welcome coffee

II. Building information model (BIM), digitalization and innovative I&C based on AI (2/3)

8.30 – 8.50 Use of BIM in public tenders, Polish perspectives, Q/A, Paweł Łąguna, ECCBim Poland,

8.50 – 09.30 The use of BIM for Polish nuclear project, Q/A, **Bechtel USA**

09.30 – 10.10 *Use of BIM in nuclear, digital continuity from design to erection of nuclear units*, Q/A, **EGIS Groupe France**

10.10 – 10.50 Use of BIM/IFC in nuclear, case study – on new built projects – EPR in Hinkley Point C United Kingdom, Q/A, Paweł PRUS, **Laing O'Rourke**

10.50 – 11.05 Coffee/Tea break

III. Advanced manufacturing and welding technologies applied in the nuclear industry

Moderator: Prof. Jerzy NIAGAJ, Upper Silesia Technology Institute, Łukasiewicz Research Network

11.05 – 11.45 High-Tec technologies applied in nuclear industry: “Explosive cladding - example of multilayer materials' surface joining technics - application in NPP”, Q/A, Sebastian KOKOT, **Explomet Poland**

11.45 – 12.25 Advanced welding technics in nuclear – case study on Hinkley Point C, Q/A, Wojciech KRAWCZYK, **PUT Firmus Poland**

IV. Modularization in nuclear projects

12.25-13.05 Modularized concept of AP1000, Q/A, **Westinghouse USA**

13:05 - 14:00 Lunch break

14.00 – 14.40 New construction technics – how to accelerate construction of SMR and large scale nuclear projects using modularity concept and steel-concrete configuration? Q/A, **Egis Groupe France**

V. Building information model (BIM), digitalization and innovative I&C based on AI (3/3)

14.40-15.20 Innovative I&C systems based on AI, Q/A, Mathieu SEGOND, **Framatome France**,

15.20 – 15.40 BIM and drones in action - Safety culture is an attitude, Q/A, Joonas TUOMINEN, **Jotus Oy, Finland**

15.40 – 15.55 Coffee/Tea break

15.55 – 16.35 Sweco BIM based nuclear services, Q/A, Fionán O'Carroll, **SWECO Finland**

16.35 – 17.15 How BIM can support nuclear projects alongside all project cycle, Q/A, **Egis Groupe France**

17.15 – 17.55 BIM and drones in action - Integrated aerial data to your system, Q/A, Joonas TUOMINEN, **Jotus Oy, Finland**

17:55 SUMMARY and END OF TECHNICAL WORKSHOP