

# The Final Conference of the PRO ALFRED Project

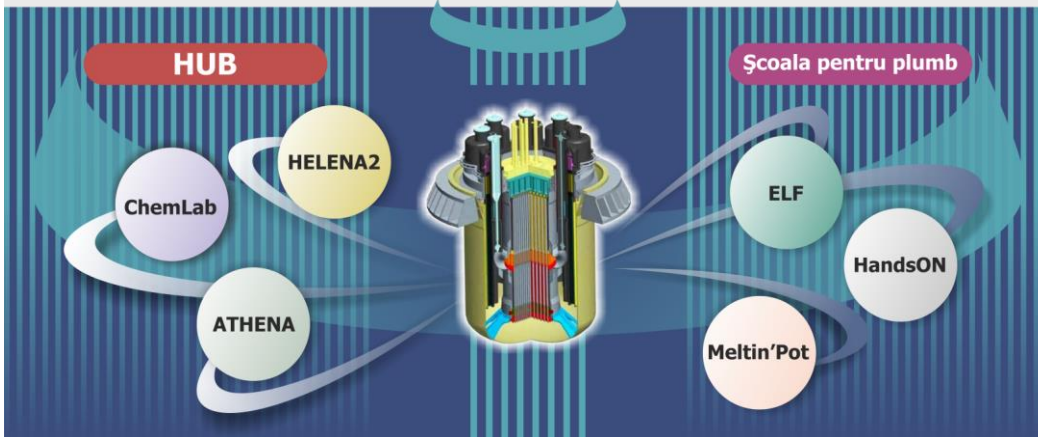
## ALFRED Research Infrastructure: Looking ahead

Hybrid Conference:

<http://zoom.us/j/2512512724>

Organized by the Institute for Nuclear Research in cooperation with the FALCON Consortium  
in the frame of the PRO ALFRED project  
financed by the Romanian Ministry of Education and Research

## PRO ALFRED



**October 22-23, 2020**

### Context

The construction of the ALFRED infrastructure in Romania is part of the national and European efforts for climate change mitigation and energy supply security through innovative solutions, and represents a national R&D priority included in the National Strategy for Research-Development-Innovation and in the Smart Specializations Strategy of the South Muntenia Region.

ALFRED is a complex infrastructure grouping the lead fast reactor demonstrator, six large experimental support facilities, the coordination hub and the "Lead School" training centre, all together devoted to the demonstration of the technical and economic viability of pure lead-cooled fast reactor technology.

PRO ALFRED and ATHENA&CHEMLAB Projects are currently supporting its implementation by activities dedicated to strengthen the Romanian contribution to ALFRED and respectively by the construction of two put the six large experimental installations in support to demonstrator licensing.

### Objectives

The conference will present the major outcomes of the PRO ALFRED project and their contribution to the advancement of the ALFRED Project, as well as the perspectives in stimulating the national research-development-innovation potential and the Romanian industry involvement.

### Topics

- European and national policies in nuclear energy and research;
- ALFRED infrastructure and associated research, education and training needs;
- Licensing of the ALFRED demonstrator;
- Long-term sustainability of the ALFRED Infrastructure;
- Benefits and opportunities for collaboration and participation in building ALFRED infrastructure.

### Registration

Online registration, available on the PRO ALFRED site [proalfred.nuclear.ro](http://proalfred.nuclear.ro), is mandatory to receive communications of logistic aspects and to get access to the meeting.

### Format

The event is organized as a 2-half day event combining the online participation with physical presence (at RATEN ICN headquarters, Conference Hall), in strict compliance with the rules for preventing the spread of COVID-19.

The conference It is structured in 4 topical sessions, in which oral presentations will be followed by open discussions mediated by a Chairperson. Presentations will be made available prior the conference on the PRO ALFRED project website prior the conference.

### Audience

The conference is addressed to European and national decision makers, scientific communities, universities, industry and business environment, as well as to the public involved or interested in the energy field and advanced technologies development.

Representatives of the European Commission and international organizations in the nuclear field, representatives of national and local authorities and specialists from the FALCON consortium and the PRO ALFRED project will highlight the last developments in the conference topics.

### Contact

Further information on this conference could be found on:

[www.nuclear.ro](http://www.nuclear.ro), [proalfred.nuclear.ro](http://proalfred.nuclear.ro) or from [daniela.diaconu@nuclear.ro](mailto:daniela.diaconu@nuclear.ro)

Day 1, 22 October 2020, 9:30 – 11:30 (CET time)

Session 1 - ALFRED: a sound project with international scope

Chair: Șerban Constantin Valeca

Co-chair: Maria Roth

5 min	<b>Welcome</b>	Alexandru Toma - <a href="#">RATEN ICN, Romania</a>
25 min	<b>Key Notes</b>	Mayor of Pitesti; Mayor of Mioveni; Representatives of <a href="#">MEC</a> ; <a href="#">MEECMA</a> ; <a href="#">MFE</a> ; <a href="#">ADR</a>
20 min	<b>Nuclear energy and nuclear energy research in Europe</b>	Roger Garbil - <a href="#">European Commission, DG RTD, Belgium</a>
20 min	<b>Priorities of the national strategy for research-development and innovation in Romania</b>	Representative of <a href="#">Ministry of Education and Research, Romania</a>
20 min	<b>Opportunities and benefits of the ALFRED demonstrator</b>	Michele Frignani - <a href="#">ANSALDO NUCLEARE, Italy</a>
20 min	<b>Key achievements through the PRO-ALFRED project</b>	Daniela Diaconu - <a href="#">RATEN, Romania</a>
10 min	<b>Discussions</b>	

Coffee break

Day 1, 22 October 2020, 11:45 – 13:30 (CET time)

Session 2 - ALFRED support infrastructure: research and education needs

Chair: Concetta Fazio

Co-chair: Dumitru Chirlesan

30 min	<b>ALFRED RD&amp;Q Infrastructure</b>	Why? What? How?	Giacomo Grasso - <a href="#">ENEA, Italy</a> Mariano Tarantino - <a href="#">ENEA, Italy</a> Marin Constantin - <a href="#">RATEN ICN, Romania</a>
30 min	<b>RD&amp;Q Programme on LFR and its implementation on ALFRED Infrastructure</b>	RD&Q needs for LFR Romanian R&D Agenda for ALFRED Infrastructure	Francesco Lodi - <a href="#">ENEA, Italy</a> Marco Caramello - <a href="#">ANSALDO NUCLEARE, Italy</a> Daniela Gugiu - <a href="#">RATEN ICN, Romania</a>
30 min	<b>Ensuring the Human Resource for ALFRED Infrastructure</b>	Needs, solutions and future actions towards competence building for ALFRED Infrastructure Tailoring the educational programme Challenges in the pandemic crisis	Minodora Apostol - <a href="#">RATEN ICN, Romania</a> Gabriela Plaiasu - <a href="#">University of Pitesti, Romania</a> ; Daniel Dupleac - <a href="#">University Politehnica Bucharest, Romania</a> Francesca Papa – <a href="#">ENEA, Italy</a> Ana Ivan - <a href="#">RATEN ICN, Romania</a>
15 min	<b>Discussions</b>		

Day 2, 23 October 2020, 9:30 – 11:10 (CET time)

Session 3 - The vision to materialize ALFRED: global industrial opportunities

Chair: Teodor Chirica

Co-chair: Giovanni Villabruna

35 min	<b>ALFRED in the European and International context</b>	Updates on Gen IV LFR technologies development IAEA activities in LFR technology development	Alessandro Alemberti - <a href="#">ANSALDO NUCLEARE – Italy</a> Vladimir Kriventsev - <a href="#">IAEA, Austria</a>
45 min	<b>Paving the way for ALFRED Licensing</b>	Safety Approach Milestones in ALFRED licensing pathway Decommissioning	Giacomo Grasso - <a href="#">ENEA, Italy</a> Mirela Nitoi - <a href="#">RATEN ICN, Romania</a> Mitica Dragusin - <a href="#">IFIN HH, Romania</a>
20 min	<b>Discussions</b>		ALFRED: a tool for an international standard development of an LFR licensing framework of global reference

Coffee break

Day 2, 23 October 2020, 11:30 – 13:00 (CET time)

Session 4 - The vision to materialize ALFRED: national socio-economic opportunities

Chair: Ilie Turcu

Co-chair: Marin Constantin

30 min	<b>Sustainability and funding</b>	LFR SMR technology in the Romanian energy mix Implementing ALFRED technology in the Romanian energy market Funding scheme	Cristina Margeanu - <a href="#">RATEN ICN, Romania</a> Ionut Purica - <a href="#">Institute for Economic Prognosis, Romania</a>
30 min	<b>Opportunities for national and international collaboration</b>	Interest of different national target groups	Teodor Chirica - <a href="#">ROMATOM, Romania</a>
20 min	<b>Discussions</b>		
10 min	<b>Closing remarks</b>		