



**Arab Atomic Energy Agency
League of Arab States**



**Atomic Energy Authority
Arab Republic of Egypt**

15th Arab Conference on the Peaceful Uses of Atomic Energy

Organized by

Arab Atomic Energy Agency

in Collaboration with

Egyptian Atomic Energy Authority

Aswan, Arab Republic of Egypt

12 – 16/12/2021

Peaceful uses of atomic energy in Arab countries constitute important contributors to sustainable development, as nuclear technologies are involved in various life areas. Since khartoum Summit in 2006, the Council of the Arab League issued successive resolutions stating the need of Arab cooperation in peaceful uses of atomic energy. These resolutions were embodied in the Arab strategy for peaceful uses of atomic energy 2010-2020, for which the Arab Atomic Energy Agency (AAEA) developed an implementation program. Then, it emerged the need to develop this strategy to rise to Arab countries objectives. AAEA has embarked on the development of the Arab strategy for peaceful uses of atomic energy 2021-2030, in continuation of its first phase, taking into consideration the development of nuclear technologies and the needs of Arab countries in order to achieve their ambition for economic and social growth. This strategy has been implemented since the beginning of 2021.

Scientific research in peaceful atomic energy applications is among the key elements of this strategy. The Arab conference on the peaceful uses of atomic energy is an important gathering of

Arab researchers and scientists to present their scientific and applied results of research activities, to exchange views, experiences and knowledge, and to strengthen the bonds of cooperation among them.

Under this framework, the Arab Atomic Energy Agency organizes the fifteenth Arab conference on the peaceful uses of atomic energy in cooperation with the Egyptian Atomic Energy Authority in Aswan-Egypt, during the period of 12-16 December 2021. The conference aims to highlight the linkage between research and applications in Arab scientific work in the peaceful uses of atomic energy.

The conference sessions include scientific papers, general and invited lectures from senior scientists, and discussion panels treating scientific topics related to the conference themes.

Conference Themes

- 1 - Basic nuclear sciences (Physics -Chemistry – Biology).
- 2 - Accelerators (Technologies - Applications).
- 3 - Research reactors & Nuclear power reactors (Technologies - Applications).
- 4 – Electricity generation and water desalination.
- 5 – Radioisotopes technologies & Applications (Radioisotopes production – Human health - Soil fertility – Hydrology & Water resources management - Agricultural & Animal production - Pest control - Food security – Industry).
- 6 - Material sciences (Exploration, Mining & Nuclear ores extraction – Nuclear fuel cycle - Nanotechnologies - Neutron activation - Radiochemical analysis - Improving material properties).
- 7 – The environment (NORM - Environmental pollution).
- 8 - Nuclear safety, Security & Safeguards (Regulatory & Legislative frameworks - Radiation protection - Radioactive waste management – Nuclear facilities decommissioning - Risk assessment - Dosimetry - Physical protection of nuclear & Radiological materials & Facilities).
- 9- Energy planning & Diversification of its sources.
- 10 - Nuclear knowledge management and popular acceptance of nuclear energy.

The conference is open to participants from Arab atomic energy authorities, universities, ministries and Arab institutions concerned with nuclear applications and nuclear regulatory authorities.