

**WEDNESDAY, 28 NOVEMBER 2018**

**SIDE EVENTS**

**Socioeconomic benefits of radiation technology applications**

Radiation technology plays an important role for day-to-day applications in various areas such as agriculture, health, radiopharmacy, industry and environment, delivering a socioeconomic impact and contributing to the achievement of the Sustainable Development Goals (SDGs). This side event will showcase how Member States, in particular developing countries, have benefitted from radiation technology, and how Member States take different approaches to promote and enhance the utilization of radiation technology to boost the socioeconomic benefits. Cooperation among developing countries and south-south cooperation to help accelerate the contribution of nuclear science and technology toward the SDGs will also be discussed. This event is organized by Indonesia and will be held on **Wednesday, 28 November 2018, from 13:00 to 14:30 at Conference Room M6.**

**Nuclear science and technology for a better life**

This event will provide an opportunity for speakers to share their views on collaboration in nuclear science and technology to increase the level of scientific and technological expertise, to improve current standards of living and to launch a full-scale nuclear energy programme. Participants will also discuss how to efficiently integrate nuclear research into countries' economy, industry, science and education development strategies. This event is organized by ROSATOM (Russian Federation) and will be held on **Wednesday, 28 November 2018, from 13:00 to 14:30 in Board Room A.**

**Argentina - Brazil cooperation in nuclear technology**

The development of the Reactor Multipropósito Brasileiro (RMB) multipurpose research reactor is a strategic partnership between Brazil and Argentina in the nuclear field. The RMB is a twin of the Argentinian RA-10 multipurpose research reactor, also under construction. Both RMB and RA-10 will engender significant social benefits, providing the region



with science, technology and innovation infrastructure of fundamental importance to the nuclear sector in both countries, as well as a platform for greater regional cooperation and integration in the nuclear field. This event will provide details about these twin reactors and is organized by Argentina & Brazil and will be held on **Wednesday, 28 November 2018, from 13:00 to 14:30 in Conference Room M4.**

### **Supporting the development and the adoption of alternative technologies to radioactive sources**

Speakers will discuss the roles, responsibilities and possible contributions of various stakeholders in the development and the adoption of alternative technologies to radioactive sources. The discussions will address the need for developing national strategies and a holistic approach to the topic. The side event will be an opportunity for the participants to listen to experiences and lessons learned from those who have undertaken the shift to alternative technologies and to better understand the prerequisites and steps leading to an effective conversion to alternative technologies. Beverages and finger food will be served before the start of the side event. This event is organized by the United States of America in collaboration with the World Institute for Nuclear Security (WINS). This event is organized by the United States of America and will be held on **Wednesday, 28 November 2018, from 13:00 to 14:30 in Conference Room M2.**

### **Nuclear science for development**

The side event will highlight how nuclear science and technology can support three major SDGs: improving human health, protecting the environment and water resources, and generating clean energy. In 2018, the United Arab Emirates (UAE) launched its first student competition on nuclear science for sustainable development, and among 400 participating students three winning teams won the opportunity to attend the IAEA Ministerial Conference on Nuclear Science and Technology in Vienna. This side event will highlight the importance of nuclear education and youth's contribution to the peaceful use of nuclear science and technology to address Sustainable Development. This event is organized by the UAE and will be held on **Wednesday, 28 November 2018, from 13:00 to 14:30 in Lounge MO2.**



### **THURSDAY, 29 NOVEMBER 2018**

#### **ReNuAL side event: Project update and recognition of Member State contributions at the Donor Wall display**

This side event will showcase progress in the ReNuAL/ ReNuAL+ project, with an emphasis on the inauguration of the new Flexible Modular Laboratory during the Ministerial Conference opening. The side event will include special recognition of any Member State that has contributed to the ReNuAL+ project on more than one occasion or for the first time since GC (62). The Heads of Delegation of such countries will be recognized at the ReNuAL Donor Wall display. This event is organized by ReNuAL and will be held on **Thursday, 29 November 2018, from 12:30 to 13:00 at the ReNuAL exhibit located at the juncture of the corridor from the A-building to the M-building.**

#### **Sustainable radiotherapy services: Current and future challenges for low and middle-income countries**

When planning for a new radiotherapy facility commences, the discussion often focuses on the type of equipment and technological advancements. However, this is just one component amongst many that need to be considered in setting up a more comprehensive radiotherapy facility. There are many other key planning issues which have a major influence on the sustainability and success of such a major project. These include the regulatory infrastructure, the location of the facility, building planning, support services, the availability of competent human resources and long-term budgeting. Appropriate and realistic phasing of such a project is achievable with a local, multidisciplinary, implementation team that is fully aware of the challenges in their environment. In this context, this side event will sensitize policy makers to the steps needed to set up a radiotherapy centre within an African context. This event is organized by AFRA and will be held on **Thursday, 29 November 2018, from 12:30 to 14:00 in Conference Room M6.**



### Atoms for heritage

This event will highlight important applications of accelerator and reactor-based techniques for the history, interpretation, diagnosis and preservation of cultural and natural heritage objects. In particular, novel imaging approaches, radiation-based treatment of artefacts, procedures for safer analysis and authentication studies will be presented. The broad international implication for the tourism/creative industries, environmental sustainability, intercultural dialogue and peace will be underlined. Cultural heritage is of considerable importance and has been acknowledged in recent years:

- Cultural and natural heritage is an unusual topic, but nevertheless of broad international implication: tourism/creative industries, environmental sustainability, intercultural dialogue and peace
- SDG target 11.4 “Strengthen efforts to protect and safeguard the world’s cultural and natural heritage” [2030 Agenda for Sustainable Development, 2015]
- Examples of objects, sites and samples are easy to communicate and for general outreach
- 2018 is the European Year of Cultural Heritage
- This event is organized by France, Netherlands, Brazil and Egypt and will be held on **Thursday, 29 November 2018, from 12:30 to 14:00 in Board Room A.**

### Past & current challenges of Jordan’s first nuclear reactor facility

The Jordan Research & Training Reactor (JRTR) is the first nuclear reactor facility to be constructed in the Hashemite Kingdom of Jordan. The JRTR represents one of Jordan Atomic Energy Commission (JAEC) accomplishments in promoting nuclear technology use and as one of the means it has sought to further develop human resources in order to sustain the deployment of peaceful nuclear energy applications in Jordan.

Being Jordan’s first nuclear reactor, many challenges were encountered during the design, construction, commissioning, and licensing of the JRTR; and as the JRTR continues to transition to seek effective operation and utilization, new challenges are being faced.



This event seeks to present the challenges that are being faced and showcase this state-of-the-art multi-purpose facility that was designed to serve as a platform for advancing research, training and education, in addition to offering irradiation services. It stands to be a unique Center of Excellence leading forefront nuclear research in Jordan and the Middle East (ME) region.

This side event seeks to share experience and lessons-learned with other IAEA Member States and promote the JRTR as a Center of Excellence and a regional hub for the IAEA ME Member States.

This event is organized by the Kingdom of Jordan and will be held on **Thursday, 29 November 2018, from 12:30 to 13:15 in Conference Room M4.**

### **The development of nuclear science and technology applications in China**

After years of research and development, China has made remarkable progress in the applications of nuclear science and technology. China will share its experiences with other IAEA Member States. This side event will give an overview of the development of nuclear science and technology applications in China and will cover, inter alia, topics such as addressing climate change challenges, solving environmental issues, improving quality of life, and the nuclear education programme in China. This event is organized by the People's Republic of China and will be held on **Thursday, 29 November 2018, from 12:30 to 14:00 in Conference Room M2.**



### FRIDAY, 30 NOVEMBER 2018

#### Coordinated Research Activities

The main topic of this event is IAEA Coordinated Research Activities (CRA): projects, mechanism, statistics, participation, success stories, benefits and potential involvement of Member States and their research institutes. The IAEA encourages and assists research, development and practical use of atomic energy and its applications for peaceful purposes throughout the world. It brings together research institutions from its developing and developed Member States to collaborate on research projects of common interest, so-called Coordinated Research Projects (CRPs). Each established CRP consists of a network of 10 to 15 research institutes that work in coordination for three to five years to acquire and disseminate new knowledge. CRP results are available, free of charge, to scientists, engineers and other users from all Member States. The broad scope of CRP activities is reflected in the great diversity of their outputs, which include:

- establishment of networks and database;
- development of devices/tools for diagnosis and testing;
- promotion of research through well-known scientific and technical publications;
- technology transfer through technical cooperation projects;
- masters and PhD theses.

The IAEA collaborates with designated Member State institutions through Collaborating Centre scheme to promote the practical use of nuclear techniques worldwide and implement its own programmatic activities. Focusing on research, development and training, the scheme helps reach important SDG targets. Through the Collaborating Centres, Member States can assist the IAEA with their own original research and training in nuclear technologies. The Collaborating Centre scheme is an efficient cooperative mechanism that encourages centres to share resources, knowledge and expertise. The event will conclude with a Q&A session. This event is organized by IAEA – NACA and will be held on **Friday, 30 November 2018, from 8:15 to 9:00 in Meeting Room 4.**



### **The Philippines and the IAEA: Charting a stronger partnership of 60 years and beyond**

The side event will focus on the 60 years of collaborative work and cooperation between the Philippines and the IAEA: contributions of the IAEA towards achieving the development goals of the Philippines, Philippine contributions to other Member States in the field of nuclear science, and the way forward in pursuit of stronger partnership. This event is organized by the Philippines and will be held on **Friday, 30 November 2018, from 12:30 to 14:00 in Conference Room M2.**

### **Atoms for health: Fulfilling global nuclear medicine demand**

Together, Australia, Belgium and the Netherlands supply around 75% of the world's Mo-99, which is used in the vast majority of nuclear medicine procedures worldwide. This side event will feature presentations from three leading representatives from government and industry engaged in the production of medical radioisotopes in Australia, Belgium and the Netherlands, followed by a panel discussion with the audience. The senior representatives will discuss issues such as the importance of reactor-based production for securing the nuclear medicine supply chain, new opportunities and innovations, and efforts to eliminate proliferation risks. The speakers and panellists will be Dr Adi Paterson, CEO ANSTO (Australia), Dr Frank Deconinck, Chairman Rad4Med (Belgium), Frodo Klaassen, Business Manager NRG (Netherlands). This event is organized by Australia, Belgium and the Netherlands and will be held on **Friday, 30 November 2018, from 12:30 to 14:00 in Conference Room M4.**



### La Francophonie au service de la science et de la technologie nucléaires

Cet événement parallèle découle des constats suivants:

- Etat des lieux de réseaux de scientifiques et d'institutions francophones;
- L'existence de projets de recherche menés entre les pays francophones et donc la production de savoirs en Français;
- La nécessité de continuer à assurer un transfert de technologies dans la langue des pays récipiendaires afin de garantir la bonne utilisation et l'appropriation de ces technologies par les utilisateurs sur le terrain.

Comment l'AIEA intègre et s'adapte à ces réalités? Quelle est la place du Français dans les projets de recherche coordonnés? Comment l'Agence peut-elle s'appuyer sur les réseaux d'institutions nucléaires francophones pour développer et promouvoir la science et la technologie nucléaires? Quelle place est faite au Français dans le programme de coopération technique? Quels sont les enjeux scientifiques prioritaires des pays francophones? Quelle place faire à la santé, l'agriculture ou l'environnement? This event is organized by France & Morocco and will be held on **Friday, 30 November 2018, from 12:30 to 14:00 in Conference Room M6.**

