

New IAEA Initiatives to Advance Accelerator-based Research & Development

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The IAEA Physics Section is pursuing efforts on utilizing particle accelerators to support fundamental and applied research, characterize and qualify materials of nuclear interest and provide education and training. The IAEA's coordinated research activities are designed to stimulate and coordinate research in IAEA Member States in selected nuclear fields. These coordinated research activities are normally implemented through Coordinated Research Projects that bring together research institutes from both developing and developed Member States to collaborate on the research topic of interest.

Furthermore, it is also recognized that establishment and operation of accelerator facilities require more attention because of their complexity and remarkable costs involved. Operation schemes of various types of accelerator facilities in response to the users' requirements, standardisation of the beamlines, performance indicators and figures of merit are only a few aspects which require coordinated and joint actions in order to improve the reliability of the service in a cost effective way. One of the new initiatives is that we support to develop and coordinate aspects of management strategies for accelerator facilities.

The IAEA Physics Section is launching a new Accelerator Knowledge Portal (AKP) for the benefit of accelerator scientists, accelerator users and service providers worldwide. The knowledge portal offers not only a database of MV particle accelerators in the world, but it has several networking and community features in an attempt to bring together the accelerator community, as well as provide information to accelerator users and policy makers, too. <http://nucleus.iaea.org/sites/accelerators/>.

The establishment of sustainable education and training programmes is fundamental for the safe, secure and efficient development of the nuclear field. The IAEA offers a wide spectrum of activities in support of education, training, human resource development and capacity building including interregional, regional and national training courses and workshops; assists visits and reviews services; initiates, formulates and runs programmes; networks managers and specialists for sharing good practices; assists in publications that compile the best international practices; supplies training materials and training tools; and supports internship programmes for the young generations of scientists and fellows.

For the developing countries, the Technical Cooperation Programme provides the necessary skills and equipment to establish sustainable technology in the counterpart country or region through training courses, expert missions, fellowships, scientific visits, and provision of equipment.

The different activities to achieve our objectives and new initiatives in the field of "Accelerators" which define our programme at the IAEA Physics Section will be presented.

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