

The Activities of the Institute of Nuclear Physics and Uzbekistan INIS Centre on Attracting a Young Generation into the Nuclear Area

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The Institute of Nuclear Physics was founded in July 1956 as part of Uzbekistan Academy of Sciences. The Institute of Nuclear Physics situated 25 km from the city center of Tashkent is the leading Institution carrying out the researches in the fields of fundamental investigations on the problems of nuclear physics, solid state and semiconductors physics, radiochemistry, radiation safety ecology and environmental sciences, especially environmental protection. At present the Institute has different operating facilities, namely, nuclear 10 MW research reactor WWR-SM, U-150 and U-115 cyclotrons, gamma-irradiation facility, neutron generator and radiochemical complex. Today the Institute, being one of the largest research organization in Central Asia, has 6 departments, 19 laboratories, computer centre, INIS Centre of Uzbekistan, scientific library, and three enterprises: "Radiopreparat" (isotope production), "Tezlatgich" (cyclotron isotopes), Design and Machinery Bureau. All these facilities and skilled staff of the Institute allow take part in nuclear knowledge management activities by following concrete articles.

Institute of Nuclear Physics AS RU participates in International projects of IAEA, INTAS, STCU, DOE US, SCOPEs, GIA and in bilateral collaborations with Sandia National Laboratories, Argonne National Laboratory, Lawrence Livermore National Laboratory of USA.

Institute works in close cooperation with such Governmental organizations as Ministry of Internal Affairs, Ministry of Health of the Republic of Uzbekistan, State Customs Committee of Uzbekistan, Safeguarding of State Security, Ministry of Agriculture Technique and such industries as Almalyk Mining & Metallurgical Complex, Navoi Mining & Metallurgical Complex, Uzbek Complex of Heatproof and Refractory Metals.

Institute with its "Radiopreparat" and "Tezlatgoch" Enterprises are manufacturing labeled compounds and articles for medical and scientific use and exporting these products to CIS, Europe and USA. The list of products includes of more than 60 items. Technologies of production are unique and patented. The quality of the products corresponds to the world demands.

Institute regularly hold an International Conferences in nuclear fields such as "Radioisotopes and their Application" and "Modern Problems of Nuclear Physics".

In order to attract young scientists to the research works in the field of nuclear physics The Institute develop its own programme on education and training of staff and young generation:

In the period of last 3 years, 6 members of staff of the reactor WWR-SM and 1 specialist of the radiation protection service improved their knowledge (in nuclear physics) by attending on the training courses, also 4 specialists participated in the specialized seminars organized by the IAEA.

Leading researchers of the Institute are involved in the preparation of the masters, PhD and doctorate students. In 2002, 13 master students, 13 PhD students and 3 doctorate students were trained in the Institute of Nuclear Physics. In new (2003) year 6 masters students of the Tashkent State Pedagogical University were enrolled to have trainings on the specialization subjects and to prepare their masters dissertations. Institute agreed to provide financial support for 10 National University of Uzbekistan masters (contract) accepted students.

Scientists of the Institute deliver lectures in the National University of Uzbekistan, Tashkent State Pedagogical University, Tashkent State University of Arts, Tashkent State University of Economics, and give physics, mathematics and chemistry lessons in the lyceum classes of the school 286 of the Ulugbek village.

The Small University organized to improve qualification of the young scientists continues its activities. By the initiative of the Small University and the Young Scientists Council of the Institute the special courses and English language courses were arranged.

Young scientists of the Institute participate in the international grants. In particular, more than 20 young scientists are participants of 5 STCU and 2 INTAS grants.

The Institute countersigned the Friendship agreements with 13 Higher Education Institutions of the Republic.

The Institute computer center with e-mail and Internet services, Uzbekistan INIS Center and the Institute scientific technical library in cooperation create an united information complex to provide both scientists of the Institute and bachelor and masters and PhD students of the Tashkent Higher Education Institutions, as well as researches from the other scientific organization of the Republic the opportunity to access the INIS database, Internet and library information.

The staff of computer center carries out works in the field of Information Technology, namely create: the specialised system of Internet-Caching of nuclear physics information; marker technology for creating HTM pages; technology of Internet publications of reference data on nuclear physics; electronic nuclear-physics terminological dictionaries and Thesaur and distance learning system.

For INIS users convenience the availability and accessibility of NIS Database on CD-Rom by institute local network has performed.

The scientific technical library of INP AS RU received the IRBIS software from the SOROS foundation. It is now used for the automation of the library system. However, currently, there is only single IBM 386 computer is installed and members of staff of the library created the electronic catalogues of the theses and dissertations, which are stored in the archive of the library. The library possessing the archive of 250000 items of reference scientific literature

In the paper information on “National Programme for the Personnel training”, Nuclear Education in this frame and INP AS RU other concrete activities in Managing of Nuclear knowledge will be present.