

It is a great pleasure for us to publish the KURNS Progress Report 2018. This report contains all of the accomplishments of research and related activities at Institute for Integrated Radiation and Nuclear Science, Kyoto University (KURNS) during the fiscal year 2018 from April 2018 to March 2019. As we rename our institute on April 2018, this is the first progress report of KURNS. Though we change the name of our institute, we will continue to play a distinctive role as a Joint Usage/Research Center, promoting an extensive range of studies from fundamental to applied research with research reactors and accelerators.

It is reassuring to note that the number of applications for Joint Research are increasing although the reactors had sustained operations for several years. We are proud since this demonstrates that researchers and students support our activity, which endorses our facilities as indispensable tools in their research activities with quantum beam and radioisotope. In the past fiscal year, KUR was operated for 809 hours and KUCA was for 796 hours. In total, we accepted 4,711 man-day researchers and students for using research facilities and for attending scientific meetings. A large number of research subjects has been enrolled, which covers various fields of nuclear science and technology, material science, radiation life science and radiation medical science. It is noted that 30 patients have been treated in the clinical studies of the boron neutron capture therapy (BNCT) using KUR in this period. The results of these activities are given in this report.

We strive for safe and stable operations for nationwide use, making it our primary mission to provide scientists the opportunity to conduct research and education. We are happy to dedicate our support to enable users conduct significant interdisciplinary research at KURNS.

Kumatori, June 4, 2019  
Yuji Kawabata  
Director, KURNS