

SPring-8

I. Introduction

SPring-8 was stably operated throughout FY2019 with a total operation time of the accelerator complex and the total user beam time of 5162.6 h and 4537.6 h, respectively, and a total downtime of 40.3 h. SPring-8 had to complete all its operations by the middle of February 2020.

In 2019, an automatic data collection using the ZOO system developed by RIKEN and JASRI was newly made available. The PX-BL Automatic Data Collection system was introduced in 2019B, and now users only need to send samples to SPring-8 to obtain data (no visit required).

Concerning the contract beamlines, there were four interim reviews conducted for WEBRAM (BL15XU, National Institute for Materials Science), Advanced Softmaterial (BL03XU, Advanced Softmaterial Beamline Consortium), NSRRC ID (BL12XU, National Synchrotron Radiation Research Center), and NSRRC BM (BL12B2, National Synchrotron Radiation Research Center), and the projects were authorized to continue.

At present, there are as many as 15,000 SPring-8 users, all of whom are members of the SPring-8 User

Community (SPRUC). It is important for SPring-8 to jointly organize scientific events with SPRUC, such as the SPring-8 Symposium, to facilitate dialogue between users and the facility staff. The SPring-8 Symposium was held at Okayama University (mainly Kanemitsu Hall) on August 30–31, 2019, with 359 participants. SPring-8 also facilitates communication between users and industry. The Joint Conference on Industrial Applications of SPring-8 was held in Kawasaki City on September 5-6, 2019, with 299 participants. As part of its continuous effort towards fostering human resources in synchrotron sciences, SPring-8 organized the 19th SPring-8 Summer School with 90 students of graduate schools nationwide, in cooperation with Hyogo University, Kwansei Gakuin University, The University of Tokyo, Okayama University, Osaka University, Japan Atomic Energy Agency, National Institutes for Quantum and Radiological Science and Technology, and RIKEN. Furthermore, SPring-8 and SPRUC organized the 3rd SPring-8 Autumn School with 62 participants, which included undergraduate to doctoral students and company researchers.

