

VII. SPring-8 Users Community (SPRUC)

Professor E. Nishibori
University of Tsukuba
SPRUC Chairman FY2022

The SPRUC is a user society comprising of all users of SPring-8/SACLA. In addition to individuals, representative organizations comprising 26 institutes (principal universities, national/international research institutes, industries, and beamline consortiums) participate in the SPRUC to discuss strategies and perspectives to promote the utilization of SPring-8 and SACLA.

The SPring-8 Symposium is an important annual event of the SPRUC. SPring-8 Symposium 2022 was jointly organized by the University of Tokyo, RIKEN, and JASRI and held on September 25–26 in a hybrid manner on-site (the SPring-8 campus) and online presentations. The symposium theme was "Linkages between Academia and Society at SPring-8." Approximately 500 people attended the symposium, and many topics related to industry-academia collaboration were presented and discussed. In addition, a ceremony was held for the SPRUC 2022 Young Scientist Award, during which the award selection committee conferred the award to Dr. Ichiro Inoue from RIKEN SPring-8 Center, and Dr. Yoshihiko Furuike from Institute for Molecular Science. The upcoming SPring-8 Symposium 2023 is scheduled for September 26–27 at Osaka University.

The SPRUC supported the "SPring-8 Summer School" held in July for the enhancement of research competency of users, and hosted the "SPring-8 Autumn School" on September 4–7 in collaboration with JASRI for acquiring new users and human resource development. The Autumn School was postponed to December 2021 owing to COVID19, however, it was held in September 2022 for the first time in three years. The SPRUC research groups contributed to the planning of lectures at the Autumn School. To facilitate easier participation people from companies and students who were not yet affiliated with a laboratory, the school was opened to them without the requirement of registration as radiation workers.



SPRUC2022 Young Scientist Award

Dr. I. Inoue, Prof. E. Nishibori, and Dr. Y. Furuike

The SPRUC cohosted the 5th Beamlines Upgrade Workshop on March 10 with RIKEN and JASRI, as it did in previous years. The workshop was held to enhance information exchange between members of the SPRUC and the facility, focusing mainly on the progress of each beamline upgrade such as the diffraction and scattering beamlines, X-ray micro-CT beamlines, and HAXPES beamlines. In addition, the progress of automated measurements, renewal of the proposal systems at SPring-8, and development of light sources and accelerators for SPring-8-II were described and discussed.

The 6th SPRUC research groups were voluntarily organized in each research field and comprised 35 research groups. In 2022, the 6th SPRUC research groups welcomed a new addition, the angle-resolved scattering spectroscopy group. The research groups actively held meetings to collect ideas and determine the need for beamline upgrades in each research field.



SPring-8 Symposium 2022

VIII. Outreach Activities

To reach new users in unexplored application fields, SPring-8 holds various serialized seminars named “Workshop on Advanced Techniques and Applications at SPring-8.” Representative examples are as follows:

- ◆ 77th: Collaborative usage of Synchrotron Radiation and Neutron Beam Advances in Measurement Informatics and Data Processing Using External Computational Resources
May 20, 2022 • Video conference
- ◆ 81st: Current Status and Future of Protein Structural Biology Research at SPring-8
September 15, 2022 • Osaka University and Video conference
- ◆ 84th: Cutting-Edge of Silicon Semiconductor Manufacturing Technology and Ceramic Device Development in Synchrotron Radiation
December 20, 2022 • AP Shinagawa

In addition, by exploring the advantages of video conferencing, we have been holding a “Seminar on Advanced Techniques and Applications at SPring-8” every Tuesday evening since January 2021. Over 2000 participants have been involved in the eight seminars conducted during the period of May 11 to June 28, 2022.