



66th RAP Seminar

The 66th Seminar on RIKEN Center for Advanced Photonics

Language: Japanese

Date: **November 15 (Fri) 16:00 - 17:00, 2019**
Location: **W319, 3F, Cooperation Center, Wako Campus, RIKEN**
(理研 和光キャンパス 研究交流棟 3階会議室 W319)

Title: **Building a New Range of Photon Science
- Challenge of Super Lightsource for Industry
Technology in Japan (SLIT-J) Project -**

新たな放射光科学の開拓にむけて
- 次世代放射光計画SLIT-Jの挑戦 -

Speaker: **Prof. Masaki TAKATA**
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Advanced Synchrotron Radiation(SR) has been recognized as a premier research tool for developments of Polymer Science and Technology as well as industry core application. Large-scale SR facilities around the world constantly evolved to provide super brilliant and super directive X-ray and has built a new range of applications of the Nano-disciplines.

Since 2012, we have been pursuing the low emittance 3GeV Synchrotron Radiation Facility project: SLIT-J (Synchrotron Light in Tohoku, Japan). After extended deliberations, the MEXT Japan has just decided to initiate the new 3GeV facility construction on the campus of Tohoku University. The construction and operation will be carried out by a new organization. It is a Public - Private/Local Governments Partnership in which the partners are the QST(National Institute of Quantum Radiological Science & Technology), Tohoku University, Miyagi Prefecture, Sendai-City, Tohoku Economic Federation as well as the Photon Science Innovation Center. Funding comes from private sector investments, local governments as well as Tohoku University's support.

The primary target of the project is to drive innovation by pioneering nanometer scale visualization of materials' function as a "Super Light Source for Industrial Technology(SLIT-J)". SLIT-J is the next piece in the puzzle for the development of a coherent strategy towards SR research in Japan. A groundbreaking concept of industry-academy alliance for SR application, "Coalition Concept", is also arising out of the dialogue with industries and professors about outlook for the research market of SLIT-J.

The latest status and the perspectives on the project will be presented.



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