



The first workshop on Research Center for Artificial Photosynthesis (ReCAP)

The first workshop on Research Center for Artificial Photosynthesis (ReCAP) was held on March 27, 2019 with Bio-related Catalysis Division of Catalysis Society of Japan. We invited Dr. Chie Tsukada, Assistant Professor, Synchrotron Light Research Center, Nagoya University, as a lecturer at "How to use XAFS analysis software Athena". Dr. Tsukada served as a beamline staff member at the Aichi Synchrotron Light Center, and also provided user support for measuring and analyzing XAFS (X-ray absorption fine structure) spectra.



Snapshot of the workshop

We had an analysis training seminar introducing how to use the analysis software Athena mainly for those who are interested in XAFS analysis. Dr. Tsukada briefly explained the principle of XAFS and the information obtained from XAFS. As XAFS gives information on electronic states and atomic structures for all materials, it can be applied to the analysis of various materials involved in photosynthesis and artificial photosynthesis, such as solids, complexes and biocatalysts.

In the seminar, we analyzed the XAFS spectrum data that was actually measured, using software installed on participant's own laptop computer. Dr. Tsukada taught them how to operate carefully while showing screen with a projector. Dr. Tsukada provided a document describing all the procedures. The participants were also working hard on the training.

After the seminar, the participants continued to ask questions that were of great interest, such as applying XAFS to their own research as well as using software.



Dr. Tsukada answering questions from the participants

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