



Introduction of Research Center for Artificial Photosynthesis (ReCAP), Osaka City University by DVD

An introduction DVD (Japanese / English version) of the artificial photosynthesis research center has been made recently. In this newsletter, we will introduce some of the contents. Osaka City University is launching as one of its priority research area, the research relating to creation of new energy and solving environmental problems not only of cities but also globally. Up to date, regarding the research on artificial photosynthesis to produce fuel using solar energy, we have achieved top-level research results in the worldwide. For the purpose of practical utilization of the results of natural and artificial photosynthesis basic researches, the Research Center for Artificial Photosynthesis was opened on June 18, 2013 as the core of excellence for academic-industrial collaboration to realize the production of fuel using solar energy.



DVD panel

The Research Center for Artificial Photosynthesis is the only one research center in Japan that has a premise posting a name "Artificial Photosynthesis." Laboratories for chemistry, biochemistry, and low temperature experiment are fully equipped in the center. FT-ICR-MASS system for measurement of weight of molecules, NMR system for determination structure of molecules and X-ray Crystallography Analysis for determination three-dimensional structure of molecules and protein are equipped in the center. The Gas Chromatograph and Ion Chromatograph for measurement of fuel molecules produced with artificial

photosynthesis technology also are equipped in the center. You can also view the introductory DVD from the website (http://recap.osaka-cu.ac.jp/ap-coe/index_en.html).



Mass Spectrometer

Since April 2016, the Research Center for Artificial Photosynthesis has been authorized as Joint-Use Collaborative Research Hub by MEXT (The Ministry of Education, Culture, Sports, Science and Technology) and has been designated as "The Artificial Photosynthesis Core of Excellence." As for academic studies, the most advanced research in artificial photosynthesis are now in progress. In addition to conducting extensive joint research with researchers inside and outside the university, the academic-industrial collaborations towards practical application of artificial photosynthesis technology also are now in progress. We will contribute to deepening and developing artificial photosynthesis researches not only in Japan but also internationally.

