

## **Geochemistry Education in undergraduate course in Department of Earth and Planetary Environment, the University of Tokyo**

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Our department called Department of Earth and Planetary Environment in Faculty of Science, the University of Tokyo was founded in 2006 by reorganization of three former departments of Geology, Mineralogy, and Geography. Thus, there has not been geochemistry course in the department until very recently and actually in the process of establishing geochemistry course.

There are many classroom lectures in our department related to geochemistry including “General Geochemistry”, “Environmental Geochemistry”, “Materials Science in Earth and Planetary Sciences”, “Atmospheric and Ocean Sciences”, “Solid Earth Science”, “Physical Chemistry of Earth and Planetary Science”, “Stratigraphic Geology and Chronology”, “Evolution of Solar System”, “Crystallography”, and “Analysis of Earth and Planetary Materials”.

More importantly, there are three field work courses which are linked to various practical training courses including chemical experiment in which the samples collected in the field work courses are analyzed.

We are also planning to merge two departments, Department of Geophysics and our department. After the merger, there is an idea to build three fields within the merged department; geophysics, geochemistry, and earth-life science and geology, in terms of the basic discipline in earth and planetary sciences.

We think that most important factors to attract students to geochemistry is (i) to show simultaneously basic concept of geochemistry such as thermodynamics and its application to actual systems, (ii) to show the link between atomic-scale phenomena to macro-scale phenomena we are facing, and (iii) to show that geochemists can develop their sciences to two fields, a demanding fields such as cosmochemistry and to a more practical sciences such as environmental chemistry.