[JJ] Evening Poster | O (Public) | Public

[O-05]Kitchen Earth Science: brain stimulation by hands-on experiments

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Sun. May 20, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe) Kitchen Earth Science aims at understanding a natural phenomenon in Earth and planetary sciences by analogue experiments using goods and tools in our daily life. Analogue experiments have a function to unveil the fundamental physics governing the phenomenon. At the same time, they essentially include uncertainties so that unexpected results are frequently obtained, which have a potential for surprising discoveries. These findings also provide a good opportunity for deeply thinking, and raise new questions to explore. Such experience is precious not only for young researchers in Earth and planetary sciences, but also non-expert people who need a scientific thinking to live wisely. In the session of this year, we again focus on "advantages of doing hands-on science experiments" and discuss the significance of analogue experiments with uncertainties, which cause unpredictable results: even if the experiment fails, we learn a lot of things from the failure which may lead to a great success. We are accepting a variety of experimental researches and case studies on scientific education such as introductory educational experiments for Earth and planetary sciences in elementally and junior/high schools, general science education and interdisciplinary researches in post-high schools, and new approaches to citizen science and outreach. We welcome all the participants who are interested in Kitchen Earth Science to stimulate your brain by hands-on science experiments.

[O05-P01]Activity report on Kitchen Earth Science: Workshop and Annual Open House at Earthquake Research Institute (Joint Usage 2017)

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On Aug 1st, 2017, a workshop entitled “ Kitchen Earth Science” was held at the Earthquake Research Institute (ERI, the University Tokyo), which was supported by ERI Joint Usage 2017. We invited 13 speakers over a wide area (Science, Engineering, Scientific Education, Mass media, etc.) and had more than 60 participants in the workshop. The theme of the workshop was “ brain stimulation by hands-on experiments”. Some speakers demonstrated their experiments as a live show of “ Kitchen Earth Science”, which stimulated our brain and excited our discussion. We also had a collaboration with ERI at the Annual Open House on Aug 2nd. We invited 4 lecturers as “ chefs of Kitchen Earth Science”, and also the Kitchen experiments were demonstrated by students of Meisei University. In this presentation, we will briefly report our activity at ERI in 2017.