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Collaboration of Elementary Science Education with Earth and Planetary Sciences

Shin-ichi Kawakami1*

¹Faculty of Education, Gifu University

In order to improve serious situation in earth science education in Japan, close collaboration between people in science education and earth planetary sciences is needed. On the basis of understanding on children's, teacher's and academic worlds, specialists in earth and planetary sciences should participate in development of teaching materials and curriculums from standpoints of students. In this presentation, the author propose some approaches based on practices in publication of text books, delivery science classes in elementary, junior high, and high schools , and open lectures at universities, with brief descriptions on the proposed experiments on telescopic observation of Moon, imapct cratering, lava flows and ash falls, and examinations of stones with annual lamina (varves), and Jurassic ammonite fossils.

Keywords: science education, outreach, earth and planetary sciences, ESD, scientific literacy