
 [JJ] Evening Poster | G (General (Education and Outreach)) | General (Education and Outreach)

[G-05]Geoscience education from elementary school to university students

convener:Masatsune Hatakeyama(Seiko Gakuin High School)

Sun. May 20, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

We will provide and discuss various educational practices (teachings and procedures) for elementary, junior high school, high school and university students. We also welcome outreach reports for all grades. In addition, especially for liberal arts level geoscience education of undergraduate, we will consider the problems and future prospects of our current situation.

[G05-P04]Indoor Workshops of Rock Surface Peelings by the Hot Melt Adhesive

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Keywords:hot melt adhesive, indoor workshop, surface peeling of stratum

Surface peelings of strata using the hot melt adhesive (HMA) were practiced, by Kasama (2017). Its method is that an end of a HMA stick (dia.11mm or 11.5mm) is heated by the open fire of a gas lighter, and a melted part of the HMA stick is contacted to the surface of an outcrop or a sedimentary rock sample. When the HMA stick is peeled from the rock surface after cooling, the HMA stick catches a rock surface peeling sample. Because the electric power supply is not necessary, this method is taken place easily everywhere. In general, surface peelings of strata are taken place at outdoor field. One of the characteristics of the HMA is good for indoor works, because of no generation of harmful gases. By the examination in Kanagawa Prefectural museum, indoor workshops of the rock surface peeling using HMA for students helped understandings of sedimentary rocks with great fun. Therefore, there are many possibilities in indoor samplings by the HMA and I suggest this sampling as a new conventional indoor workshop for students. Using a high output glue gun which is more than dozens of watts, wider area is easily covered by the HMA. In the case of the wide area, a wire netting is used as backing material. It is better that the adhesion of the wire netting precedes the cooling of HMA. If the HMA is cooled and solidified, an injection of the new HMA though the wire netting is necessary. In these process, release papers and gloves are need. A finished goods is showed by photo, which is good for teaching material too. This work was supported by the Sasakawa Scientific Research Grant from The Japan Science Society.

Literature cited

Tomohiro KASAMA, 2017. A workshop report of special exhibition of surface peels of strata, Kanagawa prefectural museum of natural history. Shizen kagaku no tobira, Vol.23, No.4. 28-29.