

# **ENVIRONMENT BASED SCIENCES EXPERIMENT TRAINING AS PROFESIONALISM IMPROVEMENT OF JUNIOR HIGH SCHOOL SCIENCES TEACHER**

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## **ABSTRACT**

This Community Service activity aims to provide provision of ways to develop sciences-based experiment and give motivation for sciences teachers of SMP in Yogyakarta City in generating creativity about environment-based sciences experiment that can be applied in school.

The Community Service target is 20 sciences teachers for every Junior High School, both State Junior High Schools and Private which exist in area of Yogyakarta City which chosen by random sampling. The Community Service activity was held one day on Thursday, September 21st, 2017 at the Meeting Room of Chemistry Education Department, FMIPA, Karangmalang, Yogyakarta, attended by 20 teachers, 12 from State Junior High School and 8 from Private Junior High School, in accordance with the target of Community Service. The training begins at 08.00 am and ends at 17.00 pm using lectures, discussions, and question and answer on issues related to environment-based sciences experiment in junior high school, the constraints faced by schools in carrying out experiment, and the preparation of experiment instructions, as well as direct experiment of designing and practice experiment based on tools and materials given in groups and present it.

Based on the results of the assessment, it includes the skills assessment in the form of performance (presentation) of the experimental design and the evaluation of the quality of the experimental results prepared by each group, both are in the Good category. Performance assessment (presentation) by the Community Service Team showed an average of 79.7%, which is in the Good category. Assessment of the quality of experimental designs that have been prepared by each group showed an average of 61.9, which is in the Good category (61.9%). The final outcome of this Community Service is an Environmental Science-Based Experiment Set of results from Community Service participants in groups that have been revised by the Community Service Team. This book is expected to be a practical guide that can be utilized by science teachers of Junior High School, both teachers who are participants of Community Service and teachers outside the city of Yogyakarta. In general, this Community Service activity was successful and right, proved that the participants were very enthusiastic in following the activity from beginning to end and all participants stated that Community Service activity is useful. Hopefully, participants who are willing to share their knowledge to other teachers in school or other schools.

*Kata Kunci: training, sciences experiment, enviroment based, sciences teacher of Junior High School.*