

IDONESIAN UNIVERSITY OF EDUCATION
FACULTY OF SCIENCE AND MATHEMATICS EDUCATION
DEPARTMENT OF PHYSICS

FIELD TRIP REPORT



By

Alemnen Assefa and Shimelis Teshome

Date 21/12/2012

Time 7:00AM-17:00PM

Place of visit School (SMAN 2 Cimahi) and Science center

Preparing for experiment Activities in Class and Out Door Education

Objectives: the main objectives of the field is in order to

- Prepare for experiment activities in class at high _____ school.
- Observe different science laboratory settings in the Science center.
- Explore and analyze different physics concepts

General Introduction

As we know educational field trip is very important so as to integrate and to see the connections of concepts learnt in the class room with their application in real world life. Such type of trip promotes hand on activities because it enables one to understand ways conducting experiments easily. In this report, we are going to highlight main activities during this trip.

Observation and activity done at visiting sites

In our visit we had two programs:

School (SMAN 2 Cimahi) visit:



We arrive at the school at 8:25 AM. We first got the school principal and discussed about our program especially about open lesson what we are going to conduct next year on January 14. Then talk with a physics teacher and physics laboratory assistance. By this discussion we decide topics to be taught by us. My (Alex's) topic is Ohm's law and Shimels's topic is rotational motion. After this we observe physics laboratory room and discuss with the lab assistance about equipments and materials essential to our lessons.

Science center observation



After noon we observe different physics laboratory settings and we try to explore and analyze different physics concepts behind each demonstration. For instance magnetic pendulum,



video-2012-12-20-14-47-49.mp4



video-2012-12-20-15-09-49.mp4

demonstration that shows conservation of mechanical energy, fluid mechanics, Archimedes's principle, effect of contact area on pressure, communication by reflection of large dish and sun clock.



Photo: A) Effect of contact area on pressure. Large contact area mean small pressure. **No PAIN!** I cheek it.



B) Sun clock