

ON THE SPECIAL SCIENCE CLASS PROGRAM OF SCIENCE AND CULTURE CITY, CHANGWON

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Abstract

Changwon National University Regional Science and Technology Developing Center plays an important role in the program relating on the Korea Science Foundation. The center takes care of science class once a week about 400 elementary school students who enroll in the 15 different Dongs, all of the Changwon city. Usually science relating graduate students or teachers teach them, we call this class as a regular course. On the other hand, the center also offers classes such as visiting scientific institutes or factories, visiting scientific exhibition and places around the Changwon city, holding on special colloquium on science, offering an open laboratory and giving the chance to the students on the science relating experience. We say these as special science programs. This study considers on this special science program of Changwon city which was held on 2005. We also consider and analyze to improve the difficulties of this special program for the future.

Keywords : science relating experience, special program

1. Introduction

To learn about science, one of the best way is to experiment and experience the scientific exhibitions or instrument. By practicing and experiencing, students can gain an understanding of their own learning process and their intersections with others. In particular, to the elementary school students we must show and give the chance to explore the marvels of the world they live in and science is fun. So Changwon National University Regional Science and Technology Developing Center offers several kinds of scientific experiencing activities, programs to encourage students. We offer regular program to the students once a week. Usually graduate students or teachers go to some places at the Dong office which belongs to Changwon city. And give scientific classes to nearly 400 elementary students over 15 Dongs in Changwon city. We also offer some special programs. In this note we explain about the special programs which was held on 2005 by the Center and consider some aspects for the future.

2. Special program

The special programs which was held on 2005 were as follows.

2.1 Visiting Doosan heavy metal factory

- Number of participants : 40
- Date : 2005. 1. 7
- Contents or objectives : to make the students heaving positive attitudes on the science related jobs



2.2 Visiting Korea electrotechnology research institute at Changwon city

- Number of participants : 70
- Date : 2005. 1. 21
- Contents or objectives : to experience several kind of electrotechnology



2.3 Visiting Bingerae factory at Kimhae

- Number of participants : 150
- Date : 2005. 3. 24
- Contents or objectives : to experience ice cream related mechanism



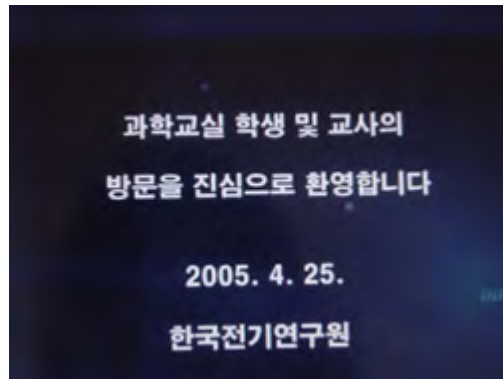
2.4 Opening biology experience class

- Number of participants : 200
- Date : 2005. 4. 23
- Contents or objectives : to dye white lily flower into blue, etc. at Changwon National University



2.5 Visiting Korea electrotechnology research institute at Changwon city

- Number of participants : 200
- Date : 2005. 4. 25 ~ 27
- Contents or objectives : to experience several kind of electrotechnology



2.6 Participating Mathematics experience class

- Number of participants : 2,000
- Date : 2005. 5. 14 ~ 16
- Contents or objectives : to play and experience Mathematics with easy handling mathematical artifacts and instruments



2.7 Visiting Upo wetland registered on Ramsar Convention on March 1998

- Number of participants : 200
- Date : 2005. 5. 28
- Contents or objectives : to visit and experience ecological conservation area, Upo wetland



2.8 Visiting Kimhae astronomical observatory

- Number of participants : 200
- Date : 2005. 7. 5 ~ 7
- Contents or objectives : to experience astronomical instruments and telescope



2.9 Participating Changwon Science Festival

- Number of participants : 20,000
- Date : 2005. 7. 15 ~ 16
- Contents or objectives : to participate Changwon Science Festival





2.10 Visiting Goseong Dinosaur Museum and experiencing Sangjokam dinosaur foot prints

- Number of participants : 240
- Date : 2005. 8. 23
- Contents or objectives : to visit and experience dinosaur related places
(Goseong Dinosaur World Expo 2006 will be held on 2006. 4. 14 ~ 6. 4)





2.11 Participating open laboratory at Changwon National University

- Number of participants : 2,000
- Date : 2005. 9. 24
- Contents or objectives : to experience related experiments and get information on the departments of science college at Changwon National University



2.12 Participating Gyeongnam Science Festival

- Number of participants : 20,000
- Date : 2005. 10. 7 ~ 9
- Contents or objectives : to participate Gyeongnam Science Festival



2.13 Science symposium on commemorating 2005 Physics year

- Number of participants : 120
- Date : 2005. 11. 12
- Contents or objectives : to have symposium on two aspects of creativity



2.14 Offering competitive examinations on Mathematics

- Number of participants : 370 (elementary : 250, middle : 120)
- Date : 2005. 11. 26
- Contents or objectives : to emphasize the importance of basic mathematics in all branch of science



2.15 Making flower pottery

- Number of participants : 120
- Date : 2005. 11. 26
- Contents or objectives : to make flower pottery



2.16 Ceremony of graduation

- Number of participants : 279
- Date : 2005. 12. 12 ~ 16
- Contents or objectives : to have the ceremony of graduation at each Dong

Dong eop graduation ceremony(2005.12.14)



Seongju Dong graduation ceremony(2005.12.12)



3. Conclusion

We want to give the benefit of our program to many students as possible as we can. In spite of difficulties in regular program, such as selecting contents or experiments, recruiting students and insurance problem, we also have difficulties for the special program. Firstly, we have difficulties in selecting science related museums or places around Changwon city. Secondly, it is difficult to control more than 200 students at one time because of the place capacity. One way to overcome the difficulties, we need some assistant systems which composed of retired teachers, professors, parents, seniors and undergraduate students using them as explainers or interns. To improve the financial problem, we also should compose, for example, Science Academic Member, which consists of science related institutes, factories and individuals supporting the center.