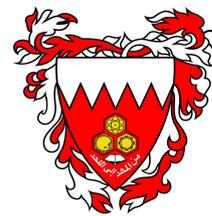




Main and recent Activities of GLOBE Bahrain Program In the Kingdom of Bahrain

A brief summary for the period (June 2011 to February 2012)

GLOBE in Bahrain 2011-2012



GLOBE Bahrain has conducted a lot of achievements in 2011 and many activities have been implemented.

This report focuses on the achievements in the period (June 2011 and February 2012).

GLOBE centre for technology and renewable energy

GLOBE Bahrain had the chance to open and activate a centre that offered exclusive chances to those interested in science-related activities that extend and enhance the science they experience in the classroom and to explore areas of scientific aspects not covered by the curriculum. The Center have been occupied during school hours since last June 2011, where 15 students benefited from the centre's equipment and tools and provided them with a workshop of the toolkits and instruments as advanced science in which learners could use for experiments, research and design, In Addition references for teachers and students, Such as teachers guide, scientific stories and magazines as well is provided at the Centre as science pedagogy. The center will also organize more and more workshops and trainings using instrument and working tools for unlimited GLOBE students and teachers. The main goals is to create hands on science activity for youth as well as enrich Science curricula with a variety of activities through such interesting advanced workshops. GLOBE Centre is situated in the Ministry of Education Campus in Isa Town and it took approximately one full year to propose the centre plan in June 2010 until it started to be activated through a workshop in June 2011. More and more of workshops and lectures are conducted.

GLOBE Workshop To Showcase 'Maker Bot' 3D Printing Technology

GLOBE Bahrain Team from the Ministry of Education Cooperation with the United States Embassy in the Kingdom hosted Jonathan Monaghan, a 3D resident artist within Maker Bot Industries community, presenting a creative tool in an interesting transferring drawing to three-dimensional statues workshop at GLOBE centre for technology and renewable energy. With the Participation of 65 members of GLOBE Schools in the Kingdom, Monaghan presented a completely hands-free operation invented, with the use of 3D Studio Max Printer as an affordable open source enabling the students to use a variety of compounds and chemicals to make 3D objects.

As such GLOBE Activities and events gives opportunity to create awareness of the new technology among GLOBE schools.

Series of Workshops

The GLOBE Program of the Kingdom Of Bahrain has achieved a series of successful training workshops of the Program basic Protocols, Atmosphere, Data Entry and Landover, for both new school coordinators and students theoretical as well as practical.

- Starting with Atmosphere and Data Entry for the Intermediate and Secondary level Schools. On the 4th of October 2011. The Workshop was held at Hamad town Intermediate and Secondary Girls school from 8:30 am to 1:00 pm. 92 students from 28 interested schools Participated effectively in the workshop were trainer coordinators along with the GLOBE team from the Ministry of Education conducted the workshop supported by students leaders from schools whom are well trained.
- On the other hand, another Basic Protocols workshop was conducted on the same day for the Elementary member schools where new coordinators and students attended an exciting Atmosphere and Data Entry Protocol workshop at Al Orooba Primary girls School from 8am to 12:30pm. 31 coordinators and students attended from 11 schools, and trained and supervised by GLOBE outstanding trainers. The theoretical part was introduced briefly through a presentation of the GLOBE Program in The Kingdom, its birth, annual activities and achievements. The theoretical part was Presented by the Coordinator assistants and Trainers where basic Atmosphere Protocol was introduced, followed by GPS Protocol and ended with Data entry. The training was followed by the practical part distributed in different stations in the school field.
- In Addition to the series of workshops arranged, was the landcover workshop that was conducted on the 18th of October where 85 Students and coordinators attended GLOBE students in this successful activity promoted a new strategy by a welcoming presentation of the program by the GLOBE Bahrain Coordinator, Wafa Bin Dayna following an introductory of the Protocol by the Coordinator assistants and school Coordinator trainer committee at the Program.

However the theoretical session of the workshop that lasted an hour and a half was held at GLOBE centre for technology and renewable energy at the Ministry of Education Campus, was followed by the practical session where all were transferred to one of the homogeneous location in the Kingdom of Bahrain. Well trainers coordinators with the help of a group of experienced well trained students leaders whom handled the training job, on Landcover protocol. The trainees were divided into 3 main groups and each settled in homogeneous location where amazingly occupied the field. The program was very much challenging for the groups whom were guided to their destination through flash cards arrows that were placed in the field before hand.

At the end, a final discussion took place for all the trainees to discuss the results when the groups returned to GLOBE centre. The main objectives of the landcover protocol, is to Increase the awareness and understanding of the earth as a system and to improve the understanding of the Sustainable development from natural resources.

Nevertheless, Encourage to prepare short or long term studies ranges focusing on the relation between climate change and atmosphere to be compared by local and international schools.

Finally, The GLOBE Team of Bahrain has also expressed its hearty thanks to Institute for Technology for the place and its friendly administration. Tokens of thanks also went to all the trainees for their great effort and hard working to come up with useful experiments as well as the additional skills that they have gained of observing and analyzing.

7th Annual GLOBE Green Walk, Sense of Place, 29th December 2011

GLOBE Bahrain organized the Annual 7th GLOBE Green Walk event that allowed 300 of GLOBE Bahrain students Participating and coordinators from all the levels of 50 schools. The GLOBE Green walk that had been under the Patronage of the Assistant Undersecretary for General and Technical Education, Nasser Mohammed Al Shaikh from the Ministry of Education, sponsored by both the Ministry of Education and the United States Embassy in the Kingdom of Bahrain, hosting the Press and Cultural Attaché Public Affairs Office, Brad J. Niemann along with Media Coordinator, Hind Abdulla Yousif from the U. S. Embassy. focusing on the impact of climate change and the "Sense of Place" as a theme chosen this year.

The event as an annual extraordinary activity that had been held at the Ministry of Education Permanent Camp where students as leaders from secondary level created hands-on activities and given group names as 18 Arab Scientist explorers like Ibn Batoota, Al Abu Qassim Al Estakhri, Al Edreesi, Shehab Al Dheen Al Hamawi, Ibn Majed, Ibn Jubair, Al Yacoubi, Mohammed Al Maqdessi that occupied the groups in an exciting adventures way. The games were conducted in different areas in the camp according to levels using the dry areas with desert plants and access

to the sea shore areas at the Al Jazaer beach in spread out stations. The activity started at 10 am until 4pm .What makes this year Green Walk , "Sense of Place" different from the previous years is having games and activities of elementary and intermediate level students ages 7 to 12years different from the high school students 13 to 18 years. The activities aims to recognize the site and characteristics of the explored area.The total number of stations that were conducted for the high school level students were Bahrain Gallery station- Land of Lycium station- The Impossible Goal station- Sargassum Beach station- Message in a Bottle station - MUC Lobby station- Treasure Island station- Conocarpus Station- Aqua Station, with each station having a limited time for the groups to accomplish the games. On the other hand the elementary level groups as well, had been given exciting adventures stations that were Marine Sindebad station- The cave of secrets station- Treasure map station-Mermaid station-Ali Baba cave station-The land of Bisbas(anise-flavored plant with edible bulbs station-The land of Khobais(a local plant)

The games naturally contains several interesting elementary level activities from starting point to end point. The games contains recycled cards creating contain, illustrating several maps from parts of the camp site as well includes questions about the discovery of a specific site that students came to specify. They also had the chance to check the temperature Lo and high -wind speed - pressure - wind direction. Through the stations, One of the interesting stations that the elementary have been through was beach cleaning and waste classification of and that as an impact on the characteristics of such natural site.

Overall the GLOBE Bahrain students enjoyed at their most this promising event that had been scheduled GLOBE Team from the Ministry of education arranged and organized the event. The Groups were guided by group leaders to the stations in specific schedule given according to levels. The end point for all the levels were to be gathered in a spot for Planting saplings in the camp guided by Agriculture engineers from the Ministry of education. The experts guided and helped the students using the correct methods in planting. However students that had Participated in the Ocean for life project as well had an important role in which some of the ideas and games had been conducted by them to the participants. The GLOBE team supervised by the country Coordinator gathered the students at the end to distribute prizes on both High school and elementary winner groups that accomplish the games at stations with the highest scores. GLOBE team as well distributed giveaways to Coordinators and students whom had been very helpful in organizing the Annual Green Walk.

GLOBE 8th Annual Scientist fair , "My Dream Echo house"

Enhancing on the Annual Successful Activities conducted by GLOBE Bahrain, The 7th Annual Scientist Fair contest was a challenging and had been organized from the beginning of the Scholastic Year 2010 to June 2011, with a number of Training Workshops regarding using clean energy to design modern buildings and Sustainable Green Schools Workshop by specialists from the same field, with a theme that is one of the most serious challenges facing the Middle East during this century. The theme was a study and a Project that had been conducted within 2010-2012. "GLOBE Green School" as a demanding topic and a beginning to the topic of the coming year 2012,

" My Echo dream home" as a Scientist fair project theme for coming March 2012.

A series of training workshops using clean energy to design modern buildings and Sustainable Green Schools took place at GLOBE Centre where students participating in the Scientist fair attended preparation workshops where experts as engineers and local scientists in the same field presented on the 22 of November 2011 and 13 December 2011. As more and more of these workshops will be held in the future, a design and an environmental assessment workshop that will be held on the 14th of February, 2012 at GLOBE Centre for technology and renewable energy at the Ministry of Education. In Addition to The identification of the site using GIS workshop through Google Earth on the 14th of February 2012 as well.

GLOBE Bahrain had been very interested in the study of local bird immigration as one of GLOBE investigation areas. A study that took place since 2010 as a study for the Intermediate and secondary level students. A series weekly field visits of a natural inhabitants in the kingdom took place during the study. A workshop will be conducted on the 15th of February 2012 by an expert from the University of Bahrain.