

SUMMARY REPORT ON THE MONITORING MEETINGS

In Alexandria

1 7 - 1 9 O C T O B E R 2 0 0 0

Submitted by:

Dr. Hala Adel and Dr. Hassan Abou Bakr

November, 7, 2000

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SUMMARY REPORT ON THE MONITORING MEETINGS IN ALEXANDRIA 17-19 OCTOBER 2000

**submitted by:
Dr. Hala Adel and Dr. Hassan Abou Bakr
November, 7, 2000**

INTRODUCTION

One of the Green COM project aims was to implement activities on Solid Waste Management (SWM) in Alexandria Governorate. The target group of this work was the teachers in the secondary technical schools in the Governorate. Thus, several visits were paid by the project consultants where they met with the officials in the Education Directorate in Alexandria, and with the secondary technical school teachers in 3 schools, *i.e.* Advanced Hotel School, Moharm Beck Advanced Technical School, and Rushdy Industrial School for Girls.

In July, 17-19 A Solid Waste Management workshop was held. The total number of participants who attended this workshop was 51. The objectives of the workshop concentrated on raising participants awareness about environmental education, solid waste management concepts, environmental auditing, environmental impact assessment, and global, national and local most important issues. In addition, the workshop also aimed at testing some of the environmental educational activities.

By the end of the workshop, all stakeholders agreed upon creating a methodology for follow-up and monitoring. Thus, a date was set for a meeting to be held on October, 2000, where the project consultants meets with the teachers in their schools.

After the workshop the project staff continued their work in order to develop and enhance the materials which were distributed during the workshop. These materials were taking the form of an educational package which consisted of a book on solid waste management, a video film, a CD and a number of 12 transparencies concerned with different environmental issues. When these materials were ready, the visits to the schools were implemented.



PARTICIPANTS DURING THE EXPERTS MEETING,
OCTOBER, 16, 2000

B- THE AIR

	%
Right answer	78.13
Wrong answer	6.25
Right to some extent	9.38
No answer	6.25

C- THE WATER RESOURCES

	%
Right answer	68.75
Wrong answer	15.63
Right to some extent	6.25
No answer	9.38

10- ARE THERE ANY BENEFITS FROM WASTES RECYCLING ?

	%
yes	90.63
No	0
No Answer	9.38

11- IN CASE OF YES, MENTION THESE BENEFITS

	%
Right answer	53.13
Wrong answer	21.88
Right to some extent	15.63
No answer	9.38

12- ARE THERE ANY LAWS FOR ENVIRONMENTAL PROTECTION IN EGYPT?

	%
yes	90.63
No	0
No Answer	9.38

13- IN CASE OF YES, WHAT ARE THEY?

	<i>%</i>
Right answer	0
Wrong answer	15.63
Right to some extent	59.38
No answer	25

14- DO YOU CONSIDERED THAT YOUR SCHOOL COULD PLAY A ROLE IN PROTECTING THE ENVIRONMENT IN YOUR CITY?

yes	90.63
No	3.13
No Answer	6.25

15- IN CASE OF YES, MENTION HOW

	<i>%</i>
No answer	12.5
To dispose garbage in the suitable way	12.5
To keep the environment clean	12.5
To raise students awareness to conserve the environment	50
To plant Tree in the school	12.5
To clean the school and the streets around it	18.75
To carry out environmental activities in and outside the school	15.63
To raise the awareness of the people in the city	3.13
To Guide the students to benefit from solid wastes in producing useful things	6.25
To Produce posters giving environmental information	3.13
To carry out researchs concerning environmental conservation	9.38
	3.13

The work in Alexandria was divided into 2 parts:

- 1- meeting with some of the experts in the fields of education, environment, development..etc.
- 2- visiting the teachers in their schools and conduct a one day workshop in each school in order to present the educational kit.

1- MEETING WITH THE EXPERTS

On October, 16, a meeting was held in Alexandria with about 47 experts who work in different fields, *i.e.* education, environment, solid waste management, development, donors agencies..etc. (see annex 1, list of participants in the experts meeting).

OBJECTIVES OF THE MEETING

- 1- To introduce the educational package which was prepared by the project;
- 2- to get the feedback and comments of the experts on the quality and contents of these materials;
- 3- to set a way of cooperation, if possible, with these experts to develop and distribute these package on a larger scale.

THE MEETING PROCEEDINGS

The meeting started at 7 PM (see annex 2, The Experts' Meeting Agenda), by a welcoming speech given by Ms. Kamelia Hegazy, from the Education Directorate in Alexandria. The speech concentrated on how this work started and the objectives of this meeting.

Another speech was given by Mr. Mohammed Hamza, the director of the Central Department for Technical Education in Cairo. Mr. Hamza talked about the importance of solid waste management in the technical secondary schools, and he thanked the project for all the efforts it made during the last few months.

Then, Dr. Lynn Mortonson, the Project Manager, welcomed everyone, and said that this meeting is like a celebration for all the project staff, where after a long period of work and efforts, finally the materials are ready for distribution. She added that this work was a group work where many stakeholders participated in its preparation and implementation, *i.e.* people from the Ministry of Education in Cairo and Alexandria, a number of donors agencies, a number of industrial factories, in addition to the teachers from the 3 schools.

The aim of this work, said Dr. Mortonson, is to raise the students qualifications in the field of solid waste management and environment, so that when these students graduates they will be able to implement such activities and at the same time they are expected to transform these information to their colleagues in the different work fields.

Dr. Lynn added that the educational package which will be presented now is very context specific, it was prepared especially for the Egyptian environment, and that this package will be distributed on all the technical schools all over Egypt.

Later, a presentation was given by Dr. Hassan Abou Bakr, Dr. Hala Adel and Dr. Sherif Kandil, on the solid waste management book, the transparencies, the video film and the CD, respectively. After the presentation of the educational package, the project was keen that everyone of the participants gets a bag containing all these materials.

THE EXPERTS FEEDBACK AND COMMENTS

The second session in the meeting aimed at having the participants feedback, and the following are some of these comments.

- All the participants started by thanking the project staff for all the efforts and work they have done to produce these materials. Some of them said that the material are of a high quality, simple from the technical point of view, and are suitable for the technical secondary schools and the Egyptian context.
- Other participants said that it is very important to create a mechanism for distributing these materials outside Egypt, in the Arab World, and they assured that the Arab people really need such a work.
- Some others said that this is the first time that a project concentrate its effort towards the technical schools, and that technical schools do need such a work very much.
- One of the participants talked about the importance of cooperation between the project and other projects that work in the field of environment in Alexandria, in order to exchange experiences and knowledge.

- We also had some feedback from the headmasters who attended the SWM workshop. They said that the workshop helped them a lot in improving their work in the field of environment, and that they were able, in a short time, to raise the students awareness on environment and solid waste management.

- We also had some comments on the CD, where one of the participants said that he would like the CD to be more interactive, where it shows the students doing the experiments by themselves. Another one said that it would have been better if the CD contained some environmental games. These games, he said, would encourage the students to use the CD more.

- In addition to the comments, some of the participants had raised several questions, *i.e.* this work concentrates on solid wastes, what about liquid and gaseous wastes? This work is directed towards the secondary schools, what about the primary and preparatory schools? And does the book shows the negatives of recycling as much as it shows the positives?

These questions were completely answered by the project staff.

2- THE FOLLOW UP MEETING WITH THE TEACHERS

The project consultants paid three visits to the three technical schools, *i.e.* Advanced Hotel School, Moharm Beck Advanced Technical School, and Rushdy Industrial School for Girls. It was a great chance to meet with the teachers and headmasters who were trained during the workshop of July (see annex 3, List of Participants in the meetings), and to have their feedback about the activities they have implemented since the training. In addition, we had the chance also to meet with some of the students in the three schools, who attended our meetings with their teachers, and to show both of them the materials we have developed and get their opinions and comments.

The same procedures were followed during the three visits, where we started by distributing a pre-evaluation form for each one of the teacher (see annex 4 , the Pre-Evaluation Form). The aim of this questionnaire was to measure the teacher's level of information about solid waste management and some environmental issues. After the teachers answered the questions, a brief summary was given by the project consultants on the book, transparencies, the video film and the CD was given by the project consultants. After the presentation of the educational package, the teachers had the chance to express their opinions on these materials, (see annex 5 , Meeting Agenda).



**TEACHERS AND STUDENTS DURING THE MONITORING
MEETINGS IN THE THREE SCHOOLS.
17-19 OCTOBER, 2000**



THE PROJECT CONSULTANTS PRESENTED THE EDUCATIONAL PACKAGE IN DETAILS IN THE EXPERTS MEETING AND IN THE THREE SCHOOLS

***TEACHERS AND STUDENTS COMMENTS AND FEEDBACK
ON THE EDUCATIONAL PACKAGE:***

- All teachers and students appreciated very much the materials presented by the project consultants, and they said that these materials show the amount of effort and work done through the last period.

- In the hotel school, one of the teachers said that he thinks the CD will attract the students more than the other materials because students love to use the computer.

- Other opinion said that the variation in the assisting materials is very important in teaching the students these new skills and information , and it will encourage them more to participate in such activities.

- some of the students said that they will take the transparencies and draw them on big flipcharts so that every one in the school can see them. In addition to a number of other transparencies that they will design by themselves.

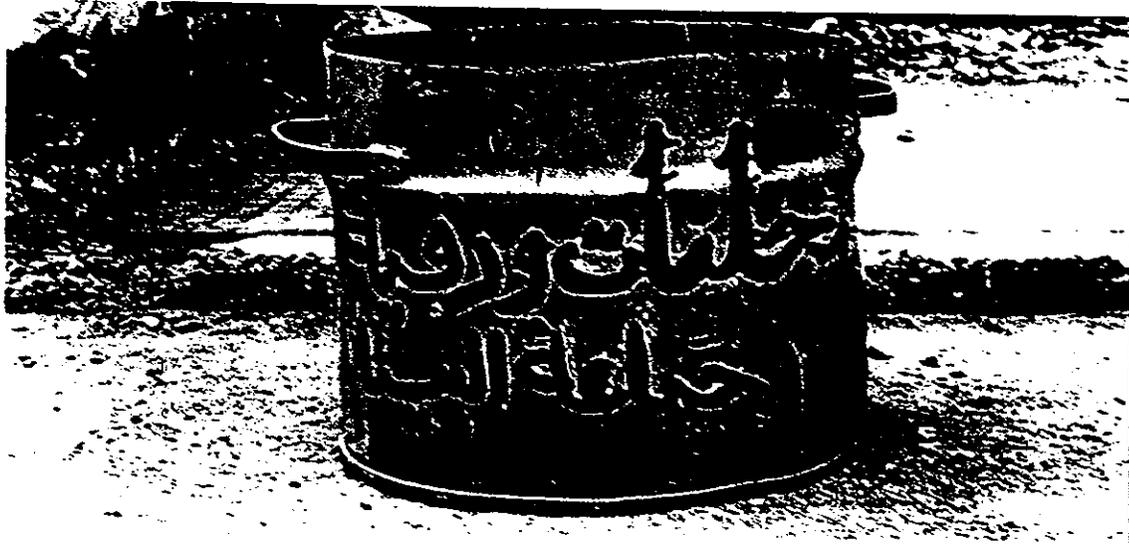
- Another student said that he, with the help of his colleges, will make a land fill model and present it to the other students, with an explanation of its important.

- One of the teachers said that he will take his students to visit the sites showed in the film so that they see these kind of activities in reality after watching the video film, and they also might do an environmental auditing to these three places.

- There were also some important comments given by the official people who attended these meeting. Mr. Shawky Taha, Director of Technical Schools in Alexandria, said that the students who will participate in the environmental activities carried out in the school will gain more grades by the end of the year than the others, and the effort of the teachers who will implement such activities with their students will be taken into consideration by the Directorate.

- Mr. Edward Nasralla, the Director of Environmental Education in the Ministry of Education in Cairo, added that the educational package will be distributed all over the country, and more teachers will be trained on how to use it during the coming period. He also said that there will be a close follow up and evaluation for the teachers through the study year.

اتحاد الطلاب يرحب بكم -



SORTING SOLID WASTES AT SOURCE IS AN IMPORTANT STEP IN SOLID WASTE MANAGEMENT. IN THE PHOTO STUDENTS HAD MADE 3 DIFFERENT CONTAINERS FOR PLASTIC, PAPER, AND ORGANIC WASTES

By the end of each day all the teachers who attended the workshop of July were given the educational package, and each school was provided by a set of materials and tools that are necessary for implementing the different environmental activities in the book, (see annex 6, List of Materials and Tools).

ACTIVITIES IMPLEMENTED BY THE TEACHERS AFTER THE WORKSHOP IN THE THREE SCHOOLS

During our visits to the schools we had the chance to see the activities done by the teachers and students since the training workshop. They have implemented many of the activities they were trained to do, such as, the newspaper clips, either in files or on posters, the sanitary land fill, the green house effect, keeping the balance between CO₂ and O₂.

Moreover, teachers have also drawn a large number of posters on different subjects of the environmental issues raised during the workshop, and others. In additions, teachers in two of the schools we have visited started, with the help of their students, to plant some of the school areas that were neglected, and to put different containers for the different types of wastes, *i.e.* plastic, cans, papers, food ..etc. and they wrote the project name on each of these containers and also on all the posters they produced.

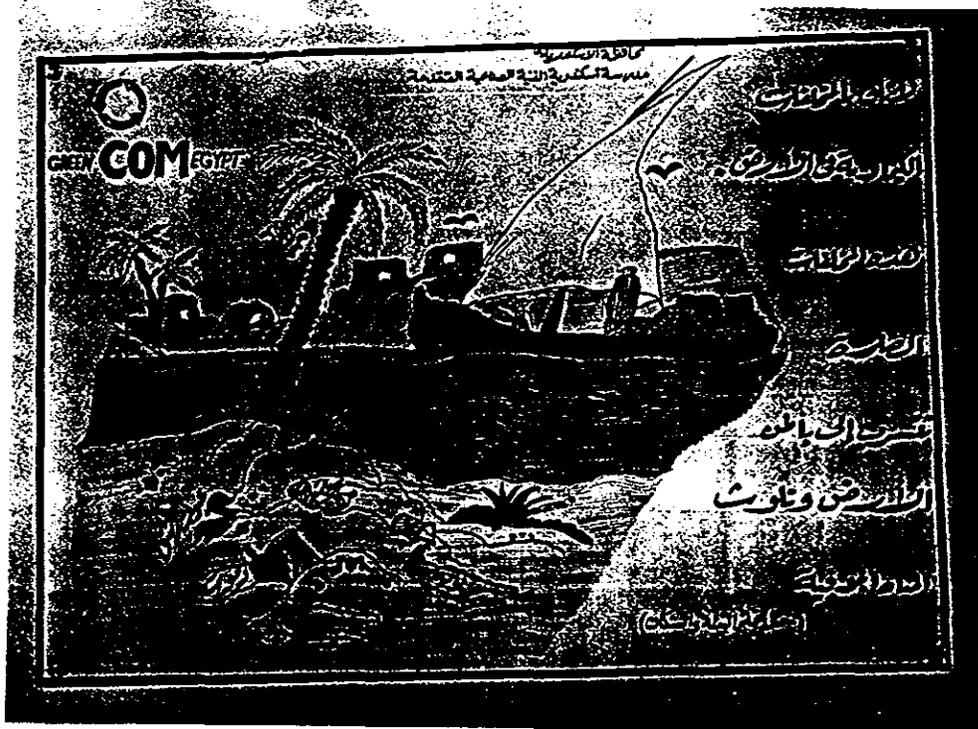
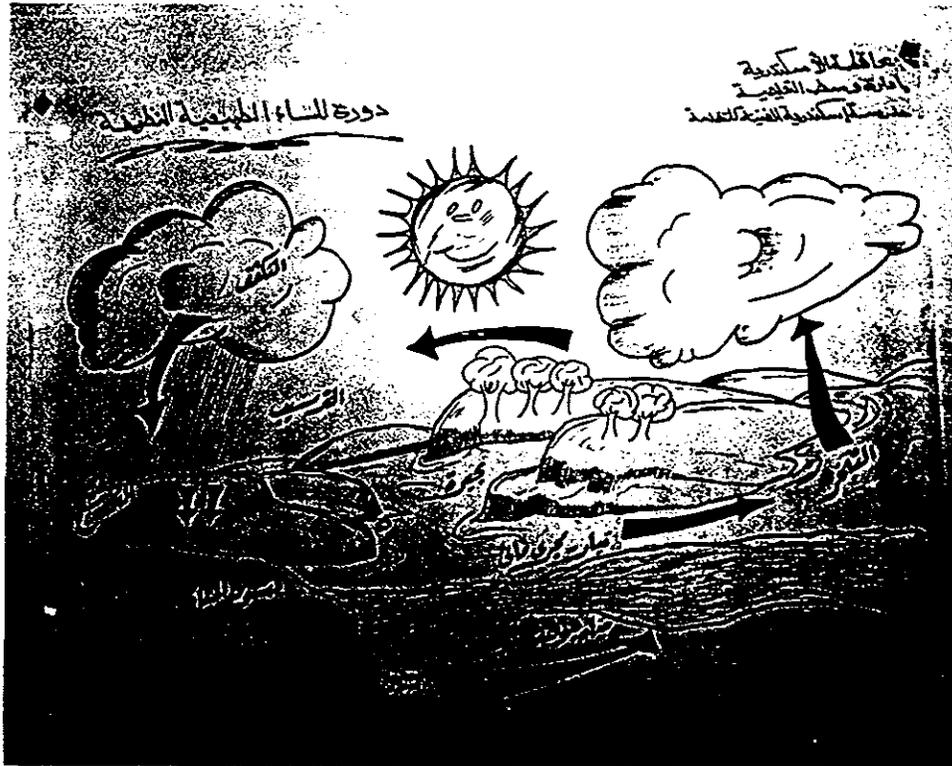
COMMENTS ON THE PRE-EVALUATION RESULTS

A number of 33 forms were distributed where the teachers were asked to answer about 17 questions on solid waste management and some environmental issues. Annex 7 presents the analysis of the results obtained and the following is a summary of the most important results and recommendations.

- It seems that the term sustainable development is not yet clear for the teachers where 51% did not answer this question, and 27.3% gave a wrong answer. But during the presentation of the learning supplement we were able to give them a brief summary on sustainable development. On the other hand, the term environmental education is more clear for about 64% of the teachers who correctly identified it.



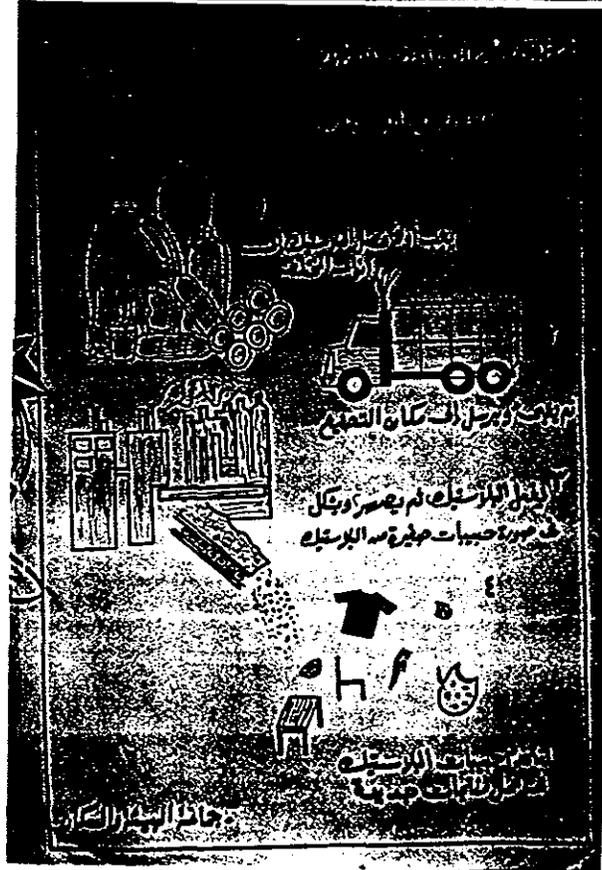
USING NEWSPAPERS CLIPS AND GIVING INSTRUCTIONS ARE ANOTHER WAY FOR RAISING ENVIRONMENTAL AWARENESS



POSTERS ARE ONE OF THE IMPORTANT COMMUNICATION TOOLS. STUDENTS IN THE THREE SCHOOLS USED THIS TOOL TO TRANSFER ENVIRONMENTAL INFORMATION TO THEIR COLLEGEUES. THE FIRST PHOTO SHOWS THE CLEAN WATER CYCLE IN NATURE, AND THE SECOND SHOWS THE EFFECTS OF CHEMICAL SOLID WASTES ON GROUND WATER



THE TWO PHOTOS DRAWN BY THE STUDENTS SHOW HOW TO DEMONSTRATE THE GREEN HOUSE EFFECT THROUGH MAKING A SMALL MODEL OF A GREEN HOUSE USING WASTES, AND THE SECOND PHOTO SHOWS THE NATURE LIFE CYCLE THAT HUMAN ACTIVITIES MIGHT FOLLOW



THE TWO PHOTOS SHOW THE STEPS OF GLASS AND PLASTIC RECYCLING. TEACHERS WITH THE HELP OF THEIR STUDENTS DRAW THESE PHOTOS AFTER THEY ATTENDED THE WORKSHOP HELD BY THE PROJECT IN JULY, 2000

14- IN CASE OF YES, MENTION THESE BENEFITS

	<i>%</i>
Right answer	36.4
Wrong answer	33.3
Right to some extent	21.2
No answer	9.1

15- ARE THERE ANY LAWS FOR ENVIRONMENTAL PROTECTION IN EGYPT?

	<i>%</i>
yes	(85%)
No	(6%)
No Answer	(9%)

16- IN CASE OF YES, WHAT ARE THEY?

	<i>%</i>
Right answer	39.4
Wrong answer	15.2
Right to some extent	15.2
No answer	15.2

17- IN YOUR OPINION, WHAT ARE THE MAIN STEPS ONE SHOULD FOLLOW WHEN DESIGNING AN ENVIRONMENTAL AWARENESS CAMPAIGN?

	<i>%</i>
Right answer	12.1
Wrong answer	18.2
Right to some extent	33.3
No answer	36.4

- Ozone layer depletion, accumulation of solid wastes and air pollution were the most three important global environmental problems the teachers mentioned. On the local level, teachers saw air pollution, accumulation of garbage and contamination of drinking water as the most important environmental problems. And on the local level, again, accumulation of solid wastes, and air pollution were mentioned, in addition to sea water pollution.

- Teachers were able to identify the main sources of solid wastes, where 70% of them gave the right answer, in addition to 18% who their answers were correct to some extent.

- Most of the teachers were not able to mention the elements of solid waste management, 57.5% gave no answer or wrong ones. During our presentation of the educational kit we had the chance to repeat the most important elements in solid waste management, and to answer some of the teachers questions about that. We also guided them to the chapter in the book which explains this issue.

- A percentage of 61% were able to differentiate between reuse and recycle. And 94% of them said that there are lots of benefits from materials recycling. Whereas a high percentage of 70% succeeded to mention the main conditions necessary when implementing a sanitary land fill.

- A few teachers (27.3%) correctly identified the term environmental auditing, whereas the term environmental impact assessment was not so known for most of them (94% gave the wrong answer). We think that teachers needs more information and maybe training on these issues, although these issues are discussed in a background paper and some activities in the book of solid wastes management.

- Teachers were able to detect the effect of solid wastes on soil, air and water resources, (see annex 7, ques. 12).

- A high percentage of 85% of the teachers said that there are laws for environmental protection in Egypt, but only 39% of them knew some of these laws. We also think that teachers should be given more information on the different environmental laws in Egypt, however, we advised them to read about that in the book.

- Teachers were not completely able to mention the main steps one should follow when designing an environmental awareness campaign (see annex 7 , ques. 17).

ANNEX (1)

**LIST OF PARTICIPANTS IN THE
EXPERTS MEETING**

حوار مع الخبراء

الاثنين ١٦ اكتوبر ٢٠٠٠

قاعة الفرسان - فندق المتروبول - الاسكندرية

تسجيل

الاسم	المنصب	الجهة	العنوان	تليفون محمول
فاطمة أبو شوك	مدير عام	مركز البحوث البيئية	طريق وادي النيل العلمية	٠١٢٢٢٣٥١٦
حسين الخواجا	مدير عام KSSP	الجمهورية العربية السورية	القاهرة منطقة التحرير	٠١٢٢٢٣٥١٦
هشام محمد فريد	مدرس	مركز البحوث البيئية	طريق وادي النيل العلمية	٠١٢٢٢٣٥١٦
شادي محمد محمود	امستان	كلية الزراعة	جامعة القاهرة	٠١٢٢٢٣٥١٦
د/ محمد محمود		البريد العلمية	جامعة الإسكندرية	٠١٠١٠١١٠١١٠١١
محمد لبيب		AED	٩ - باتالسا ست	٠١٢٢٢٣٥١٦
Jo Maher	Director ← British Council	Atex	٩. Batalsa St.	
د/ أيمن محمد عبد المنعم	مدير مشروع	مركز البحوث البيئية	٣ - صقر عبد المنعم - القاهرة	٠١٢٢٢٣٥١٦



Academy for Educational Development

Egyptian Environmental Policy Program (EEPP) Funded by U.S. Agency for International Development

386 7975

حوار مع الخبراء

الاثنين ١٦ أكتوبر ٢٠٠٠

قاعة الفرسان - فندق المتروبول - الاسكندرية

تسجيل

الاسم	المكتب	الجهة	العنوان	تليفون/محمول
سيد محمد الطاهر	مدير البرامج	وزارة التعليم	وزارة التعليم	٥٨٦٧٢٦٢
محمد بيوت	مدير البرامج	وزارة التعليم	وزارة التعليم	١٤٥٩٩٩١٧
مكي عبد القوي	مدير البرامج	وزارة التعليم	وزارة التعليم	٥١٢٣١٥١٦٥٩
محمد مصطفى حسن	مساعد مدير	الهيئة العامة للتعليم	الهيئة العامة للتعليم	٥١٢٣٥٤٩٤٧٥
سيد محمد	مدير البرامج	وزارة التعليم	وزارة التعليم	٧٩٢١١٦٩
د. علي بساط	استاذ	جامعة الاسكندرية	جامعة الاسكندرية	٥٥٨٢٩٦١
د. محمد جوي	استاذ	جامعة الاسكندرية	جامعة الاسكندرية	٥٤٠١٤٨٧
محمد طاهر	مدير البرامج	وزارة التعليم	وزارة التعليم	٥٤٤٦٢٩٤
د. سامية البدر	مدير البرامج	وزارة التعليم	وزارة التعليم	٤٤١٢٧
د. د. أحمد نور	مدير البرامج	وزارة التعليم	وزارة التعليم	٥٤٢٦٤٤٧



Academy for Educational Development

Egyptian Environmental Policy Program (EEPP) Funded by U.S. Agency for International Development

حوار مع الخبراء

الاثنين ١٦ أكتوبر ٢٠٠٠

قاعة الفرسان - فندق المتروبول - الاسكندرية

تسجيل

تليفون محمول	العنوان	الجهة	المناصب	الاسم
١٤٤٤١٤٨٥٨	٤٤٥٥٥٥٥٥ الاسكندرية	الاسكندرية	مدير عام الاسكندرية	عبدالله محمد داود
١٤٤٢٣٠٠٠٠٧	٤٤٥٥٥٥٥٥٥٥ الاسكندرية	الاسكندرية	مدير عام الاسكندرية	محمد محمد محمد
٧٤٤٠٤٠٧ ١٠١٢٤٥٧١١	٤٤٥٥٥٥٥٥٥٥٥ الاسكندرية	الاسكندرية	مدير عام الاسكندرية	محمد محمد محمد
0122185365		PARSA	EEPA-SEPA	Patricia Falso
٤٠٤٠٤٠٤٠٤٠٤		الاسكندرية	مدير عام الاسكندرية	محمد محمد محمد
		KPA-G	مدير عام	محمد محمد محمد
١٤٤١٨٠٤٠٩٦	٤٤٥٥٥٥٥٥٥٥٥٥	الاسكندرية	مدير عام	محمد محمد محمد
٥٠٤٠٤٠٤٠٤٠٤	٤٤٥٥٥٥٥٥٥٥٥٥	الاسكندرية	مدير عام	محمد محمد محمد
	٤٤٥٥٥٥٥٥٥٥٥٥	الاسكندرية	مدير عام	محمد محمد محمد
٢٠-٢-٥٦٦ ٥٥٥٥ / ٥١٠١ ٥٥٥ ٥٤٥٥	USAID (CAIRO) ٤٤٥٥٥٥٥٥٥٥٥٥	USAID	USAID Education	Michelle Ward-Beard

٢٠ شارع ١٠ - المعادي - القاهرة - التليفون: ٣٥٨٢٥٦ / ٣٥٨١٦٦ / ٣٥٨٢٥٦ فاكس: ٣٨٠٩١٧٤

20A Street #10, Maadi, Cairo, Egypt, 11431 Tel: 358-8166 / 359-4344 / 358-2653 Fax: 380-9174



Academy for Educational Development

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حوار مع الخبراء

الاثنين ١٦ أكتوبر ٢٠٠٠

قاعة الفرسان - فندق المتروبول - الاسكندرية

تسجيل

تليفون محمول	العنوان	الجهة	المنصب	الاسم
٠١٤٤٤٦٤٦٠٢	الاسكندرية		م. محمد خير الدين	م. محمد خير الدين
٠١٠١٩٠٤٤٥	الاسكندرية		م. محمد خير الدين	د. طارق رمضان
٠١٤/٥٥٨٩٤٦٧	الاسكندرية	م. محمد خير الدين	م. محمد خير الدين	م. طارق رمضان
٠١٤٤٤٦٤٦٠٢	الاسكندرية	م. محمد خير الدين	م. محمد خير الدين	د. شريف محمد عبد الله
5165505 X 2147	Cairo	USAID	Chief of Party	Jolly Patton
012 3158665	Cairo	HEP	senior scientist	John Dalton
٤٨٦٠٠١٩٩	القاهرة	م. محمد خير الدين	م. محمد خير الدين	م. محمد خير الدين
٠١٥٥٥٦٦٦٤	الاسكندرية	م. محمد خير الدين	م. محمد خير الدين	م. محمد خير الدين
		م. محمد خير الدين	م. محمد خير الدين	م. محمد خير الدين
			John Dalton	J.P.3

٢٠ شارع ١٠ - المعادي - القاهرة - تليفون: ٣٥٨٨١٦٦ / ٣٥٨٦٦٥٢ / ٣٥٩٤٢٤٤ فاكس: ٣٨٠٩١٧٤

20A Street #10, Maadi, Cairo, Egypt, 11431 Tel: 358-8166 / 359-4344 / 358-2653 Fax: 380-9174

ANNEX (2)

THE EXPERTS MEETING AGENDA

THE EXPERTS' MEETING MONDAY, OCTOBER 16, 2000

THE AGENDA

- | | | |
|-----------|---|---|
| 6:45pm | Registration and Reception | |
| 7:00-7:30 | Welcome | Eng. Camelia Hehazy
Eng. Mohamed Hamza |
| 7:30-7:40 | Introduction: the Mobark-Gor project | Dr. Lunn Mortonson |
| 7:40-7:50 | What did we do? and how did we do it (the work methodology) | Dr. Hassan Abou Bakr |
| 7:50-8:10 | Presentation and discussion of the Education Package:
1- The Solid Waste Management Book | Dr. Hassan Abou Bakr |
| 8:10-8:25 | 2- The Transperances | Dr. Hala Adel |
| 8:25-9:00 | 3- The vedio Film: Success stories on SWM from Egypt
4- The CD | Dr. Shrife Kandeil |
| 9:00-9:10 | Follow up with the schools in Alex.: Assessted Materials and tools | Dr. Hassan Abou Bakr |
| 9:10-9:30 | Future Plans: Participants Opinions and Ideas for the
Sustainability of Such Activities | Dr. Shrife Kandeil |
| 9:30-9:35 | Thanks and Close | Dr. Lunn Mortonson
Eng. Camelia Hehazy |

ANNEX (3)

**LIST OF PARTICIPANTS IN THE
MONITORING MEETINGS**

قائمة بأسماء المدرسين والمدربات الذين حضروا اللقاءات المتابعة

مدرسة محرم بك الثانوية الصناعية

- ١- هابيل ثابت
- ٢- حافظ أحمد
- ٣- نبيلة نصر الدين
- ٤- حسن عويضة
- ٥- أمين السيد
- ٦- محمد العسكري
- ٧- عمرو المصري
- ٨- محمد علي أبو كريم
- ٩- عبد الفتاح سيد أحمد
- ١٠- عزيزة حسن يوسف
- ١١- هدي جابر
- ١٢- علي مبروك
- ١٣- أيمن جابر
- ١٤- عبد الصبور محمد
- ١٥- رحاب حسن محمد
- ١٦- محمد أحمد عبد العزيز
- ١٧- علي صادق

مدرسة رشدي الثانوية الصناعية بنات

- ١- عبد الرشيد محمد خير الدين
- ٢- مسعودة إبراهيم
- ٣- عادل الجندي
- ٤- فؤاد محمد أحمد
- ٥- شرين إبراهيم
- ٦- سلوي محمد محمود
- ٧- إيمان شوقي طه
- ٨- زينب محمود جاد
- ٩- أيمن حافظ

المدرسة الفندقية

- ١- وداد أحمد فؤاد
- ٢- عيسى عبد الرازق
- ٣- نهى سعيد
- ٤- عادل عبد النبي
- ٥- آلاء عبدالله
- ٦- عزيزة عبد الحميد
- ٧- كامل الزعفراني
- ٨- علي السيد

ANNEX (4)

THE PRE-EVALUATION FORM

FOLLOW UP MEETING WITH THE SECONDARY TECHNICAL SCHOOL TEACHERS

Alexandria, OCTOBER 17-19, 2000

DEAR TEACHER,

After our meeting which lasted for 3 days during July, here we meet again like we promised. Our objective in this meeting is to show you the work we have done since that time, and to benefit from your opinions and experiences. And we would like you, please, to answer the following questions which will help us a lot to improve our work together.

- 1- What do you know about sustainable development?
- 2- What do you know about the environmental education objectives?
- 3- In your opinion, what are the most three important environmental problems on the global level?
- 4- In your opinion, what are the most three important environmental problems on the national level (Egypt)?
- 5- In your opinion, what are the most three important environmental problems on the local level (Alex.)?
- 6- What are the sources of solid wastes?
- 7- What are the elements of solid waste management? (in order to its importance)
- 8- What is the difference between reuse and recycle?
- 9- What are the main conditions of the sanitary land fill?
- 10- What do you know about environmental auditing?
- 11- What do you know about environmental impact assessment?
- 12- What are the effects of solid wastes on:
 - A- the soil
 - B- the air
 - C- the water resources
- 13- Are there any benefits from wastes recycling ?
yes () No ()
- 14- In case of yes, mention these benefits
- 15- Are there any laws for environmental protection in Egypt?
yes () No ()
- 16- In case of yes, what are they?
- 17- In your opinion, what are the main steps one should follow when designing an environmental awareness campaign?

ANNEX (5)
MEETINGS AGENDA

**FOLLOW UP MEETING WITH
THE SECONDARY TECHNICAL
SCHOOL TEACHERS**

Alexandria, 17-19 OCTOBER , 2000

THE MEETING AGENDA

- 10:00-10:15 What did we do? and how did we do it (the work methodology)
Dr. Hassan Abou Bakr
- 10:15-10:35 Pre-test on the Environmental Concepts
Dr. Hala Adel
- 10:35-11:00 **Presentation and discussion of the Education Package:**
1- The Solid Waste Managment Book Dr. Hassan Abou Bakr
- 11:00-11:15 Discussion
- 11:15-11:45 2- The Transpernces Dr. Hala Adel
- 11:45-12:00 Coffee Break
- 12:00-12:30 3- The vedio Film: Success stories on SWM from Egypt
Dr. Shrif Kandail
- 12:30-1:00 4- The CD Dr. Shrif Kandail
- 13:00-13:15 **Follow up with the schools:**
- Application of the Education Kit with the Students
Dr. Hassan Abou Bakr
- 13:15-13:35 - Documentation of Activities Implementation
Mr. Eduard Nasralla
- Distribution of Assessted Materials and Tools
- Thanks and Close Dr. Hassan Abou Bakr

ANNEX (6)

LIST OF SUBMITTED MATERIALS

MATERIALS	NO. /SCHOOL	TOTAL/ 60 SCH.
MASKED TAP	20	60
SCISSORS	10	30
ADHESIVE TAPE	20	60
CUTTER KNIFE	10	30
COLORED PLASTICINE	10	30
MARKER PENS	53	160
COLOR PENS	10	30
WATER COLORS	10	30
PAINTING BRUSHES	20	60
RULERS	10	30
BLUE TACK	10	30
FLIP CHARTS	266	800
PENCIL TRIMMERS	20	60
RUBBER ERASERS	20	60
PLASTIC FOLDERS	20	60
CUT AND PASTE CARDS	20	60
STAPLER	10	30
PINS	10	30
PAPER PUNCTURE	10	30
GLUE	26	80
CANSON PAPER CHARTS	50	150
SAW	10	30
HAMMER	10	30
SNIPS	10	30
PINCERS	10	30
SCREW-DRIVER	10	30
CROSS SCREW DRIVER	10	30
SILICON GUN	10	30
SILICON BARS	10	30
FLAT PAINTING BRUSHES	10	30
WHITE PAINT	10	30
BLACK PAINT	10	30
LIQUID GLUE	10	30
METER	10	30
THERMOMETER	20	60
PLASTIC SHEETS	20M	60M
MEDICAL COTTON	10	30
CANDLES	10	30

ANNEX (7)

**THE PRE-EVALUATION
ANALYSIS**

**INTERPRETATION OF THE PRE-EVALUATION FORMS
CARRIED OUT IN THE TECHNICAL SECONDARY
SCHOOLS IN ALEXANDRIA CONCERNING
SOLID WASTE MANAGEMENT ISSUES
17-19 OCTOBER, 2000**

TOTAL PRE-EVALUATION FORMS = 33

1- WHAT DO YOU KNOW ABOUT SUSTAINABLE DEVELOPMENT?

	%
Right answer	21.2
Wrong answer	27.3
No answer	51.5

2- WHAT DO YOU KNOW ABOUT THE ENVIRONMENTAL EDUCATION OBJECTIVES?

	%
Right answer	64
Wrong answer	33
No answer	3

3- IN YOUR OPINION, WHAT ARE THE MOST THREE IMPORTANT ENVIRONMENTAL PROBLEMS ON THE GLOBAL LEVEL?

Global Environmental Issues	%
- Ozone Layer Depletion	54.5
- Accumulation of Garbage and Solid Wastes	45
- Air Pollution	42
- Sea and Ocean Pollution	39
- Contamination of drinking Water	30
- Nuclear Wastes	12
- Noise	12
- Lack of Environmental Awareness	6
- Over Population	6
- Acid Rain	6
- Desertification	6
- Chemical Pollution	3
- Visual Pollution	3
- Radiation	3
- Food contamination	3
- Deforestation	3
- Global Warming	3

4- IN YOUR OPINION, WHAT ARE THE MOST THREE IMPORTANT ENVIRONMENTAL PORBLEMS ON THE NATIONAL LEVEL (EGYPT)?

National Environmental Issues	%
- Air Pollution	76
- Accumulation of Garbage and Solid Wastes	70
- Contamination of Drinking Water	61
- Noise	33
- Pollution in the Agricultural Soil	21
- Sea Water Pollution	21
- Lack of Environmental Awareness	12
- Over Population	9
- Visual Pollution	6
- Lack of Green Lands	6
- Informal Setteltments	6
- Lack of Preservation for Drinking Water	3
- Health Problems	3
- Over Use of Insecticides	3
- Chemical Pollution	3
- Drainage Systems Problems	3

5- IN YOUR OPINION, WHAT ARE THE MOST THREE IMPORTANT ENVIRONMENTAL PORBLEMS ON THE LOCAL LEVEL (ALEX.)?

National Environmental Issues	%
- Accumulation of Garbage and Solid Wastes	73
- Air Pollution	39
- Sea Water Pollution	33
- Noise	30
- Contamination of Water Resources	15
- Drainage Systems Problems	15
- Informal Setteltments	9
- Visual Pollution	9
- Sea Shore Pollution	9
- Streets And Squares Are Not Clean	6
- Wastes Are Not Well Managed	6
- Lack of Green Lands	6
- Lack of Environmental Awareness	6
- Over Population	6
- Accumulation of Garbage in Mahmodia and Maruot Canals	3
- Smoking in the Public Transportation	3
- The Workshops Exsist Near the Human Settlements	3

6- WHAT ARE THE SOURCES OF SOLID WASTES?

	%
Right answer	70
Wrong answer	9
Right to some extent	18
No answer	3

**7- WHAT ARE THE ELEMENTS OF SOLID WASTE MANAGEMENT?
(IN ORDER TO ITS IMPORTANCE)**

	%
Right answer	15.2
Wrong answer	12.1
Right to some extent	27.3
No answer	45.4

8- WHAT IS THE DIFFERENTE BETWEEN REUSE AND RECYCLE?

	%
Right answer	61
Wrong answer	15
Right to some extent	15
No answer	9

9- WHAT ARE THE MAIN CONDITIONS OF THE SANIATRY LAND FILL?

	%
Right answer	70
Wrong answer	0
Right to some extent	21
No answer	9

10- WHAT DO YOU KNOW ABOUT ENVIRONMENTAL AUDITING?

	%
Right answer	27.3
Wrong answer	33.3
Right to some extent	0
No answer	39.4

11- WHAT DO YOU KNOW ABOUT ENVIRONMENTAL IMPACT ASSESSMENT?

	<i>%</i>
Right answer	6.1
Wrong answer	42.4
Right to some extent	0
No answer	51.5

**12- WHAT ARE THE EFFECTS OF SOLID WASTES ON:
A- THE SOIL**

	<i>%</i>
Right answer	82
Wrong answer	9
Right to some extent	6
No answer	3

B- THE AIR

	<i>%</i>
Right answer	45.5
Wrong answer	39.4
Right to some extent	3
No answer	12.1

C- THE WATER RESOURCES:

	<i>%</i>
Right answer	64
Wrong answer	12
Right to some extent	9
No answer	15

13- ARE THERE ANY BENEFITS FROM WASTES RECYCLING ?

	<i>%</i>
yes	(94%)
No	(3%)
No Answer	(3%)

14- IN CASE OF YES, MENTION THESE BENEFITS

	<i>%</i>
Right answer	36.4
Wrong answer	33.3
Right to some extent	21.2
No answer	9.1

15- ARE THERE ANY LAWS FOR ENVIRONMENTAL PROTECTION IN EGYPT?

	<i>%</i>
yes	(85%)
No	(6%)
No Answer	(9%)

16- IN CASE OF YES, WHAT ARE THEY?

	<i>%</i>
Right answer	39.4
Wrong answer	15.2
Right to some extent	15.2
No answer	15.2

17- IN YOUR OPINION, WHAT ARE THE MAIN STEPS ONE SHOULD FOLLOW WHEN DESIGNING AN ENVIRONMENTAL AWARENESS CAMPAIGN?

	<i>%</i>
Right answer	12.1
Wrong answer	18.2
Right to some extent	33.3
No answer	36.4