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Assiut University Center for Environmental Studies continues to issue the scientific encyclopedia for environmental researches of the university. This work did not appear without continuous directions and constant support of:

**Prof. Dr. Mohammed I. Abdel-kader**  
President of Assiut University.

**Prof. Dr. Mohamed A. Ashour**  
Vice President of Assiut University for Community Services and Environmental Development.

At the same time, we can not forget the great efforts of the members and staff of Assiut University Center for Environmental Studies who enabled us to publish this edition of the encyclopedia. This encyclopedia includes several environmental topics which were investigated by the university staff at Assiut University who played a great role in environmental fields as well as the people interested in environmental issues at Assiut Governorate.

This encyclopedia deals with several researches in Biological, Chemical, Natural, Physical pollutants beside Environment and Health to serve the various medical, engineering and agricultural sciences and to be a guide for researchers and people who are interested in all of the environmental fields. This encyclopedia adds a lot of information that can be employed to straighten several environmental tracks in industry, agriculture or health and as well as community development.

In Fact, the topics included in this encyclopedia represent some of the researches which the university staff have conducted or published in the environmental issues. However, these researches represent what reached us and the center could collect. We promise you to do our best to publish all the researches that reach the center and we can gather. This great work could not be achieved without the cooperation of Assiut University staff and their experiences, As well as their cooperation in sending their researches to the center.

We hope this work will get your satisfaction. We wish to receive your comments to make the work appear in its brightest form. We ask God to make this work reach the supreme effort in serving our beloved country and dear mother, Egypt.

Prof. Dr. Mohamed A-K. Mohamed  
Co-director, Assiut University Center  
For Environmental Studies  
and Editorial Secretary
It is my pleasure to introduce the Third Assiut University Scientific Encyclopedia of the environmental researches. The university sector for community service and environmental development plays an impotent role in coping with the environmental problems, and the requirements to develop the residents in one of the most important parts of Egypt, and solve their locale problems the universities have lots of facilities and tools as well as scientific staff, research plans at the same time, the abilities of monitoring existing and local problems. It is known that the environmental problems are very complicated and need cooperation between all the authorities and the nongovernemental organisations. Also every one in the community should be unified and work as a unit for the sake of developing and improving our life.

This work may be a little of what should be done to overcome the environmental pollution and hazards. What we are looking for welfare and harmless.

Editor -in- Chief

Prof. Dr. Mohamed A. Ashour
Vice President of Assiut University for Community Services and Environmental Affairs