

## **Recommendations of The 3<sup>rd</sup> International Conference of Environmental Sciences**

### **(Future Trends in Genetics and Biotechnology for Safe Environment)**

The 3<sup>rd</sup> international conference of the environmental sciences held in the period between 8–9 July 2008 in Ismailia, Egypt. The conference discussed the Future Trends in Genetics and Biotechnology for Safe Environment. The conference organized by The Egyptian Society for Environmental Sciences in collaboration with Suez Canal University and under the auspices of The German Academic Exchange Agency (DAAD) and The Arab Council for Graduate Studies and Scientific Research (ACGSSR).

The conference included five main lectures concerned with the field of genetics, natural resources, nuclear safety, uses of genetic engineering and its recent techniques, and genetic engineering safety and risk on the environment. In addition, one poster scientific session (19 posters) and 16 oral scientific sessions (60 presentations) were held covering the following fields: environment, flora, fauna, microorganisms, marine biology, biodiversity, biotechnology, etc.

About 210 participants belong to different universities and research institutes in Egypt and different countries from the whole world attended the conference of which 27 persons organizing committee, 74 invited professors and speakers, 44 participants with manuscript, 65 participants without manuscript.

### **Recommendations**

During these lectures and scientific researches the participants traced many issues and also suggested different recommendations can be summarized as follows:

1. The effect of the global climatic changes on the Egyptian coasts.
2. The nuclear power reactors must be carried out for producing electricity and sea water desalination for the continuing the human, agriculture and industrial development.
3. Constructing a central bank for funding the projects needed for conserving the environment.
4. Treating the industrial wastes in the factories before discharging it.
5. Reforming and renewing the environmental curricula in different education stages.
6. Preventing the over hunting and overgrazing form terrestrial and marine ecosystems for conserving the biodiversity and the rare and endemic species.
7. Increase attention for preserving the extension of the plant origins.
8. Controlling the Egyptian coasts especially in Sinai Peninsula for conserving the coral reefs and rare fishes.

9. Increase attention to the Egyptian lakes and conserving of its natural environment from pollution for increasing wealth fish.
10. Studying the effect silt accumulation in Lack Nasser and studying how it can be moved to the River Nile by using the new techniques.
11. Increasing the area cultivated by wheat for decreasing the food gap and also not to use the wheat as a bio fuel.
12. Increase attention for the importance of the environmental studies for any investment project.
13. Increasing attention with the industrial safety during building any new factory for environmental safety.
14. Increasing attention for cultivation the Jatropha and Castor plants for using them for direct sewage treatment and also for using it as bio fuel instead of the crops.
15. Treating the industrial wastes and sewage produced from the scientific institutions (As Suez Canal University) for removing the organic and inorganic pollutants before pumping it in the sewage plants.
16. A scientific committee must be held for studying many environmental problems facing the Suez Canal and El-Salam Canal area and try to solve it during this year by a fund from the FP7 program.
17. Using the funds and loans of the international organization for solving the environmental problems facing Egypt.
18. Reviving the Idea of Pro. Samir El-Manharawy for constructing a reservoir in each factory as an industrial waste reservoir and then when it filled a mobile unit will treat these wastes for using them for irrigation or reusing them in the factory.
19. Adopting the ideas of biological treatment systems bioreactors and biological treatment system phyto-accumulation.
20. Increasing environmental cultural awareness (Help Environment is Help Your Self).