



Università degli Studi di Roma “Tor Vergata”

Dipartimento di Scienze e Tecnologie Chimiche

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AVVISO DI SEMINARIO

Giovedì 8 Febbraio alle ore 12.00
Aula Seminari

Dr. Michele Raggio

Dipartimento di Scienze e Tecnologie Chimiche

Università degli studi di Roma “Tor Vergata”

Terrà un seminario dal titolo:

seedScience Project

Proponente: Prof. Roberto Paolesse

Abstract

After the first aids by means of health and food assistance, people in developing countries need instruction. This is the best way to help their populations and make them self-sustaining. Education is the key for the real growth of a country¹.

The importance of teaching scientific subjects in developing countries is often underestimated and complicated by the lack of appropriate materials.

We want to put the skills of professional science educators in service of local science teachers. The short-term goal consists in describing them a different method of teaching aimed to make students reason through hands-on experiments. Training of local teachers will last about three months. After this period, they will possess a different point of view on teaching and will be able to perform and describe the experiments. Moreover, they will learn how to set up new experiments and how to obtain cheap or free materials to conduct them. Standard long-term science kits will be left to partner schools and the local teachers will keep in touch each other and with project members to share ideas and solve eventual issues. In addition, selected local educators will become “science seeders” and, in turn, train other teachers. In this way, a network of high-level science teachers will be created. The development of these local educators and the very low cost of experiments materials will make the project highly sustainable.

In the years, the mastery of natural sciences experiments will largely improve knowledge and problem solving skills of the students.

Such highly educated students will possess the basics to attend college or to immediately help their countries through their well-developed logic².

References

1. Ganimian, A. J., Murnane, R. J. Improving Education in Developing Countries *Rev. Educ. Res.* **20**, 1-37 (2016).
2. Ryan, C. Current Challenges in Basic Science Education *UNESCO Education Sector*, at <http://unesdoc.unesco.org/images/0019/001914/191425e.pdf> (accessed 26/01/2018).

