

## **CONSTRUCTING REACTORS FOR BIOFUELS PRODUCTION- A PROPOSAL OF LESSONS OF SCIENCES.**

Melo, M.A.; Teixeira, R.A.P.; Reis, A.L.S.

Colégio Salesiano e Faculdade Salesiana do Nordeste, Pe

The use of technological resources in the teaching-learning process eases the access to education through functional responses of industrial apparatuses aiming the biotechnological production of renewable fuels, which results in a high quality and low cost teaching. The aims of this project were to develop a lesson model characterized by the making of functional tool units in order to produce gaseous and liquid biofuels which were used as permanent tools at the Zoology and Chemistry laboratory at the Departamento de Biologia of FASNE, in order to improve the teaching process and raise the science learning level as well as measure the method efficiency through the use of the pre test and the learning evaluation, developing a revenue factor high will be tested in other future academic levels. The project had a partial duration of three months. Firstly it was applied the pre-tests which evaluated the previous knowledge on the biofuels, ecology and environment and energy politics subjects. After that, it was developed the equipments to the production based on the semi industrial models and the urban prototypes. Concluded the making of the instruments and also promoted a cycle of seminars to the study of the obtained results, it was partially evaluated from the post-test, the cognitive revenues in the areas of Biology (73%), Chemistry (88,5%), Physics (56%) and Social studies ( 98%).

**Supported by:** Faculdade Salesiana do Nordeste.

**Key words:** Biofuels, Technological Paradigms, Energy Politics.