

Interviews: Jean Marius d' Alexandris expresses himself in connection with a biological method of treatment of waste waters.

Everywhere in the world, the waste waters of the houses not connected to a sewer are recovered in a tank called septic tank which it should be emptied when it is full. All these components stored in the Pit (fecal matter, urine, water) could be useful for the development of the vegetation. We thus produce a water which could become a manure to accelerate the growth of the plants. It contains urea, ammonia, nitrogen, potash, nitrates, phosphate, etc

Question:

“How the idea to revalorize waste waters it came to you?”

Jean Marius d' Alexandris:

➤ “I worked as manager of a selected private industry “All breakdown services in residence”, when I was interested in the problems of waste waters. I imagined a process which I baptized “Biological Pit”. The Biological Pit is a specific tank designed for freedom of movement of waste water and a steady flow towards outside. The tank does not have a filter and functions only with bacteria. The bacteria, which one naturally finds in our intestinal total colony count work to reduce the fecal matter in fine particles during all its stay in the Biological Pit. It is about a function of biological breakdown. The Biological Pit does not store. It makes circulate the waste waters and thus makes it possible to produce a water, at exit of the process, slightly charged with all the nutritive components for the vegetation which one usually finds in a septic tank. It is a biotechnological concept, because it uses biology associated with technicality.

If the waste water, purified, is used for watering of the vegetable garden, it must be biologically clean, i.e. without chemical product. People do not want to eat food containing of micro the pollutant chemical.

For the domestic needs, the users of a Biological Pit use only products organic. It is a personal choice above all, but that should be also a choice of company because micro the pollutant chemical remake surface early or late in our plate.”

- “Do there exist products organic making it possible to wash the Dishes, ground, the WC?”

➤ “Yes, of course. Today, these domestic maintenance products are sold in large surface or in specialized stores.”

- “Does your process make it possible to make waste waters drinkable?”

➤ “Not, it is impossible. The waste waters contain natural pollution enormously, like the fecal matter, the urine and other components. They are biological, since they come from the human one, but their strong concentration in the Biological Pit would harm health.”

- “What occurs it of the chemicals (detergent, pieces of plastic, heavy metals, etc.) that people could throw to the toilets or pour in their sink and who find themselves in waste waters?”

➤ “In traditional cleansing, the chemical products poured in the sink or jetés in the WC end up being dispersed in nature. The micro chemical pollutants impregnate for a part the fecal matter. The rest is diluted in water. No technical system is able to eliminate them. There is 60-70 more years, they did not exist and the waste waters were not a source of pollution. Nowadays, there is more and more world on Earth, which generates waste waters more and more. Polluting the environment seriously, they will end up contaminating the water tables which provide us our drinking water.

The inhabitants of a house equipped with a Biological Cleansing adopted Biology Attitude. They remove of their lifestyle all the products containing of the chemical molecules. They use only biological products to wash the Dishes, biological soap for body maintenance, of the biological shampoo, the biological product for the WC. All these products are sold in large surface or in specialized stores in the organic one.”

- “Which are the difficulties which you had to overcome to create your company?”

➤ “Lack of knowledge of waste waters. The incomprehension of the role of the bacterium, because it is invisible. The fact that nothing identical or approaching my process existed on the market of the cleansing. I could not make any comparison with something of existing.”

- “Which is currently the commercial situation of your company? Is it profitable? Do you touch subsidies? Do you profit from tax incentives?”

➤ “Currently, I am what is called an auto--entrepreneur. During twelve years, I devoted all my energy to develop the technical part of the process. I created hundred establishments “Pits Biological” to date.  
I work out all the documentation of presentation necessary to a good comprehension for what one calls “a generalized product”, i.e. a product of which everyone can understand the utility, which can be established in any situation, and especially in any place of the world. From a commercial point of view, the Biological Pit is not yet profitable. I endeavour to make known it with the general public.  
Currently, I work on Africa, because a coincidence made me meet a Senegalese interested by my ideas. Together, we worked out what we call the PROJECT. That consists in recovering, one by one, the waste waters of all the houses of a small village, and to transport them to the edge of the farm where the process “Pit Biological” is installed. Each time 1000 liters of waste waters enter the process, at the exit these are 1000 liters of fertilizing water which disperse in the field by a system of irrigation. In France, with the product of my Biological Pit, I sprinkled the vegetable garden. With the system developed in Senegal, I irrigate a farm. A vegetable garden provides food to a family. A farm can provide food to a whole village.

I never touched subsidy.”

- "Can you quote us some examples of your achievements and describe us the consequences which they had?"

➤ "Blocked waste water drains were emerged only with bacteria. Previously, people used expensive chemical drain clearing liquids and the obstructions returned regularly. My method removed them definitively. I asked people not to use chemical products more. I used a mechanical pipe cleaner and I carried out a biological treatment by the injection of a cocktail of bacteria. The drains were stopped never again.

In France, I created a hundred "pilot sites" of treatment of waste waters for habitats which used an autonomous septic tank before. I obtained a scientific certification of function whose analyses determine that there is a reduction in the density of the organic matter between the entry and the exit of the process. Certification speaks about "abatement".

I developed a concept of treatment of waste waters adaptable to all the possible configurations of habitat: either a house with its system of cleansing, or several houses gathered on the same system of cleansing, or a building, an allotment, a big city. I conceived an information system strategic plan of biological cleansing for a city, the CEBRE."

- "To function, doesn't your system imply that all the townsmen convert with the Biological Attitude? That does occur if such is not the case and that a large number of between them continue to live as usual?"

➤ "The Biological Cleansing established on a city implies to have the approval of all the population, if not the process "Pit Biological" would be in permanent dysfunction. Only the houses whose inhabitants adopt Biology Attitude, can be equipped with the process "Pit Biological". It is impossible to establish the CEBRE on a city whose majority of people refuse to adopt Biology Attitude. But to motivate people, the Biological Cleansing has an undeniable asset: the door currency. In collective cleansing, the inhabitants pay renewal fees of cleansing which corresponds to 20% of the price of the establishment of the process "Biological Pit". With very short-term, with a "Biological Pit", they would not pay any more a tax. The tax of cleansing lies between 600 and 1200 euros according to the communes and it is perpetually in rise. According to the amount of their tax, people would more or less quickly amortize their financial investment for the establishment of the process.

Each house not connected to the collective reduces the cost of treatment of waste waters of the commune: no the infrastructure of connection and collection, less volume of waste waters to be treated, less production of mud residues, reduction of the cost of the palliatives treatment of these muds (incineration, spreading, storage, drying, transport, etc), reduction of the maintenance and overheads.

The generalized use of the CEBRE would decrease by 150 billion euros approximately in five years, the invoice of the cleansing of waste waters in France.

I made an estimate for the setting in place du CEBRE for the town hall of a commune of 980 inhabitants: cost 600000 euros. The estimate of traditional cleansing, was considered to him at 6 millions d'€. If one multiplies the amount saved by the number of communes which account France it has there 36000 - that makes it possible to make an estimate of the possible economies at the level of the country.

The Revalorization PROJECT of waste waters for a productive organic farming is established in Africa. At the end of 2014, for the first time, an assessment of performance and agronomic turnover could be made. The farmer thinks of largely doubling his production, to even perhaps triple it.

Another project holds me with heart: the waste water recycling for a food bank. People of disadvantaged condition, but eager to work, will exploit for their own account of the given up fields, and they will be able to give the surplus of their production to others disadvantaged, hospitals, schools, humanitarian associations, the resto du coeur, etc a manner of reintegration developing in the work world.

For the first time, following an invitation to tender of market, a town hall installs a site controls "Biological Pit ".

- "How do you consider the future trend of your activity?"

➤ "I continue to establish, in France, of the autonomous installations. I make evolve, technically, the process "Pit Biological" lyseconcept by small improvements, I supplements my documentation with the results of the experimental options in progress, I translate documentation into a maximum of spoken languages.

I take my first steps in India. I do not know too much how the things will be presented over there. It will be necessary for me to adapt to the local situation."

Remarks collected by Frank BRUNNER

<http://www.interet-general.info/spip.php?article19572>