

## MONITORING THE QUALITY OF WASTES FROM TECHNOLOGICAL PROCESS

### Goal of the project

The goal of the project is to monitor the quality of wastes from technological process.

### Short description of the project

In the project the toxic compounds from wastes from the technological process are monthly analyzed. Samples of solid and liquid wastes are analyzed.

### Project implemented by

Faculty of Industrial Chemistry and Environmental Engineering,  
Department of Applied Chemistry and Engineering of Inorganic Compounds and Environmental.

### Implementation period

November 13, 2017 until November 14, 2018

### Main activities

The main activities of the project are:

- Analysis of volatile compounds (COV) from solid and liquid waste.
- Leaching testes for sludge to be placed in a class of waste.
- Analysis of the following parameters: Cr<sup>3+</sup>, Cu<sup>2+</sup>, Ni<sup>2+</sup>, Cd<sup>2+</sup>, Pb<sup>2+</sup>, Zn<sup>2+</sup>, pH and humidity of the sludge.
- The main parameters are analyzed once a month in according to the project plan.

### Results

1. The volatile compounds (VOC) from waste were analyzed.
2. The concentration of heavy metals in the sludge was determined.
3. Sludge leaching testes were made.

### Applicability and transferability of the results

- Improved university-industry relationships.
- Updating curricula in accordance with the economic realities of the local area.
- The results are consistent with the legislative framework in force.
- Adoption by the university of new mechanisms and management techniques resulted from the project activities.

### Financed through/by

S.C. FLEXTRONICS ROMANIA S.R.L.

### Research Centre

Research Center of Environmental Sciences and Engineering

### Research team

Assistant Prof. Mihaela CIOPEC, PhD  
Professor Adina NEGREA, PhD

### Contact information

Assistant Prof. Mihaela CIOPEC, PhD  
Faculty of Industrial Chemistry and Environmental Engineering,  
Department of Inorganic and Applied Chemistry and Environmental Engineering,  
Address: Bv. Vasile Pârvan, No. 6, RO300223, Timisoara  
Phone: (+40) 256 404192  
Mobile: 0722806880  
E-mail: mihaela.ciopec@upt.ro