

RIMINI 25/02/2015

Today we went to a mobile laboratory of the 'ARPA (Regional Agency for Prevention Environment) of Emilia Romagna which is Air, Water, Earth sounds and electromagnetic fields. The visit was very interesting.

On the roof of the laboratory there are many instruments for the weather and pollution.



Weather

Above is an anemometer used to measure wind speed and just below the instrument used to measure the direction of the Wind;

Rain gauge: a cylinder that is used to measure precipitation.

Thermohydrometer: measuring the temperature and the humidity.

A plate under test solar radiation.

The weather instruments are needed to process the data of pollutants.

POLLUTANTS

The first pipe at the top draws the outside air and serves to determine the gas.

The cylinder below serves for the sampling of the powders. There's a sieve, the inner walls of the cylinder are greased with a silicone oil.

The air picks up speed and larger particles are fixed in silicone oil while smaller and more dangerous pass under.

On the handset there's a computer and a modem that transmit information to the central Arpa station Rimini.



Arpa monitors the level of pollution in our area and intervenes in cases of alerts.