

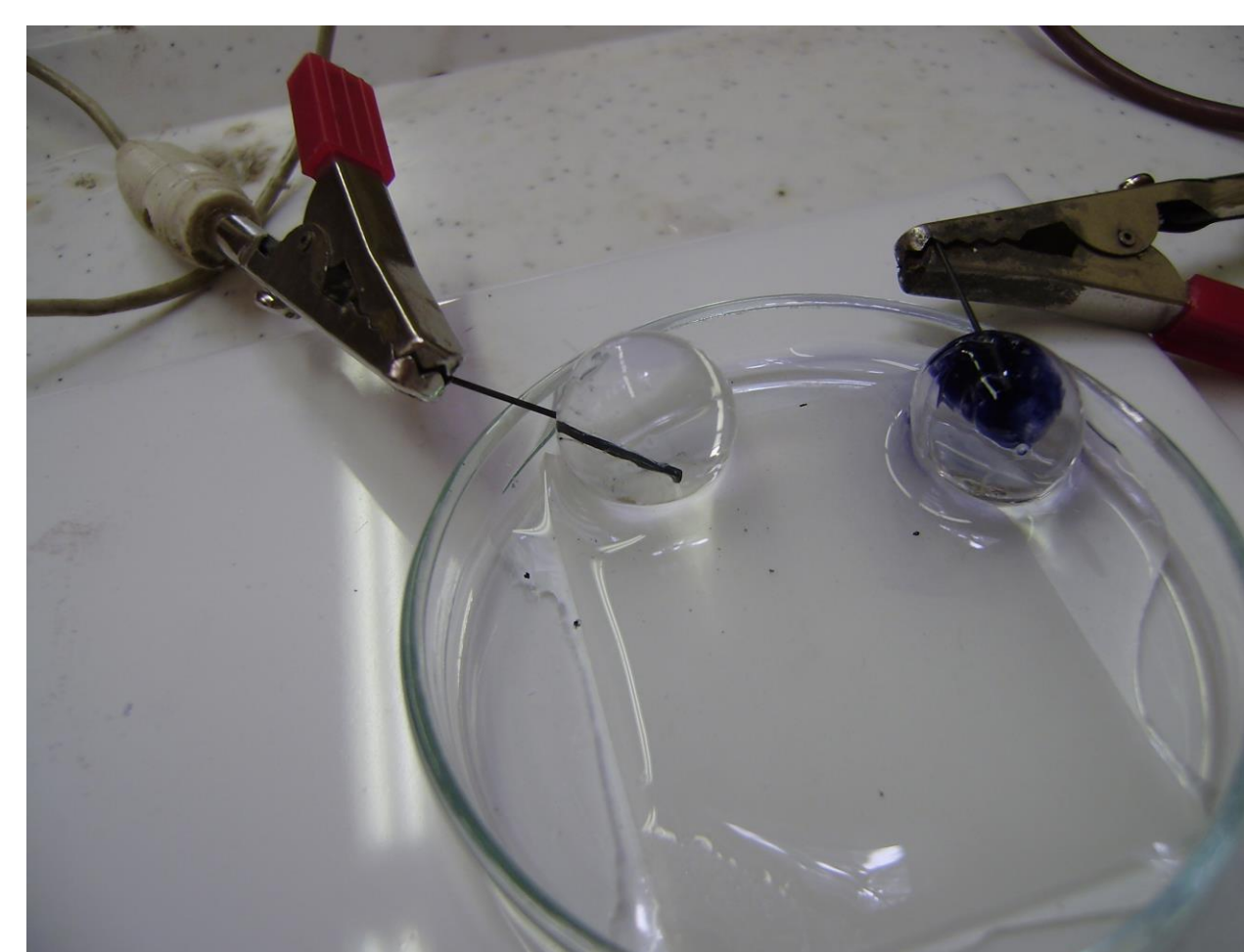
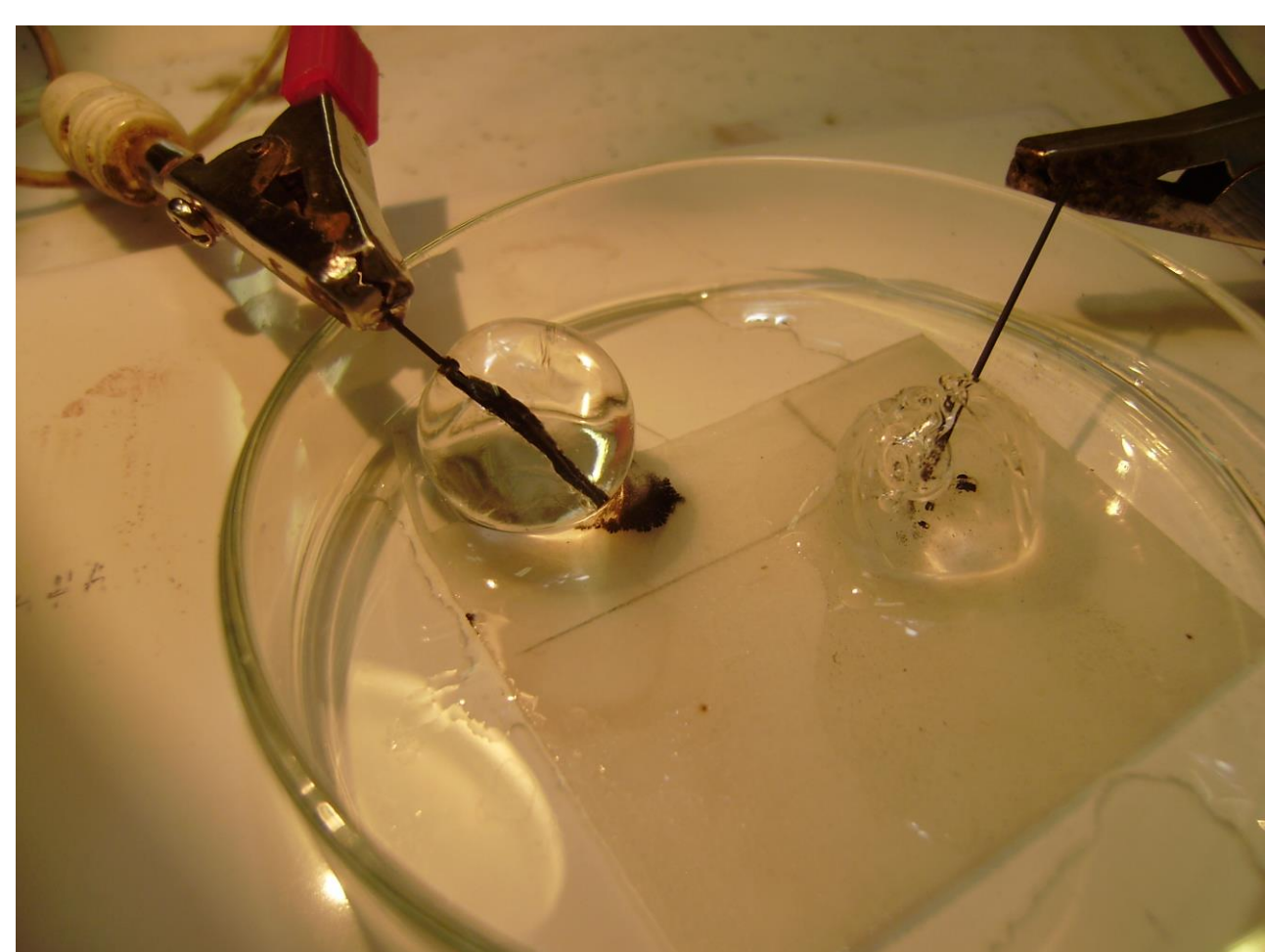
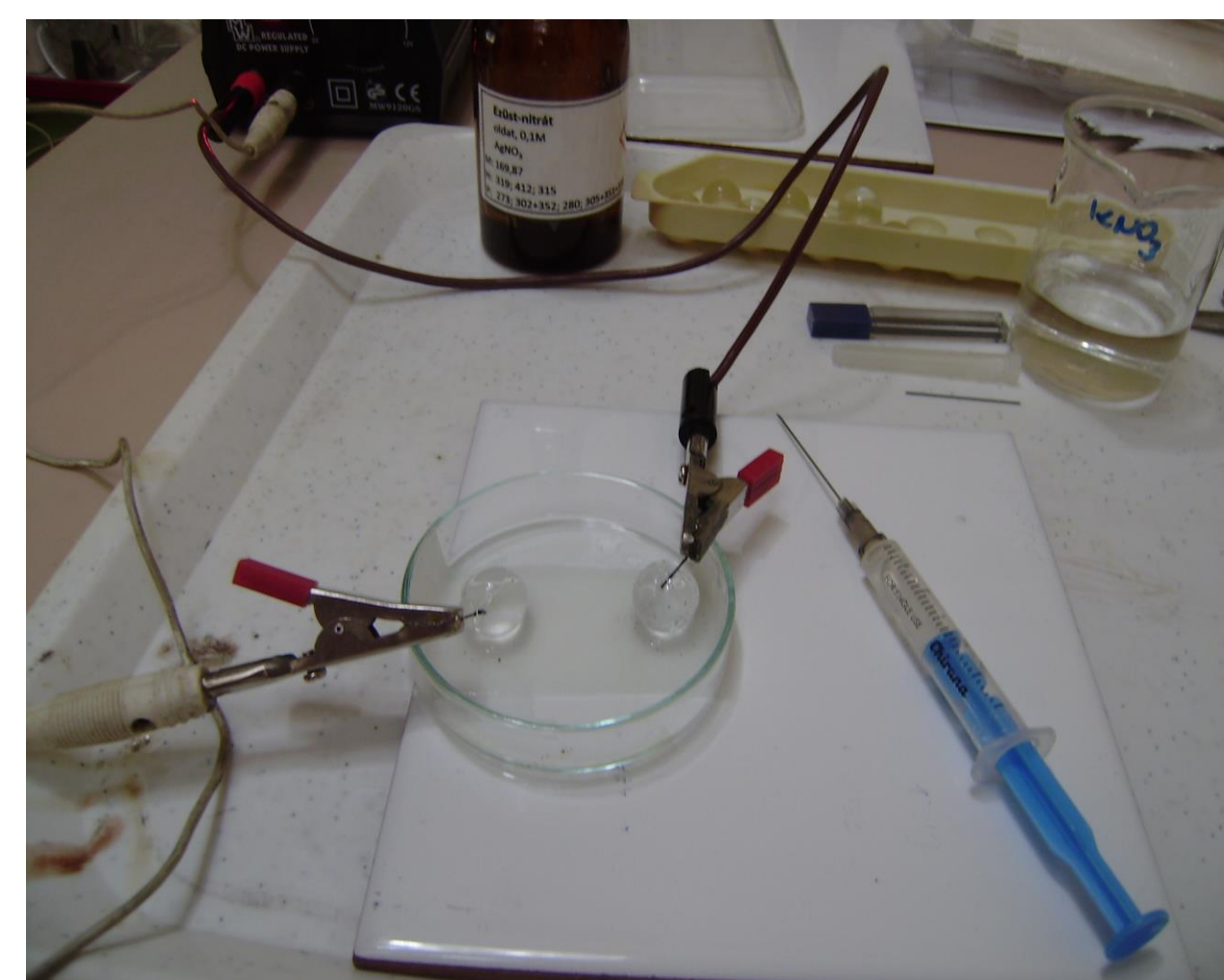
Dobóné Dr. Tarai Éva | Berzsenyi Dániel High School | Budapest | Hungary

Small is beautiful II.

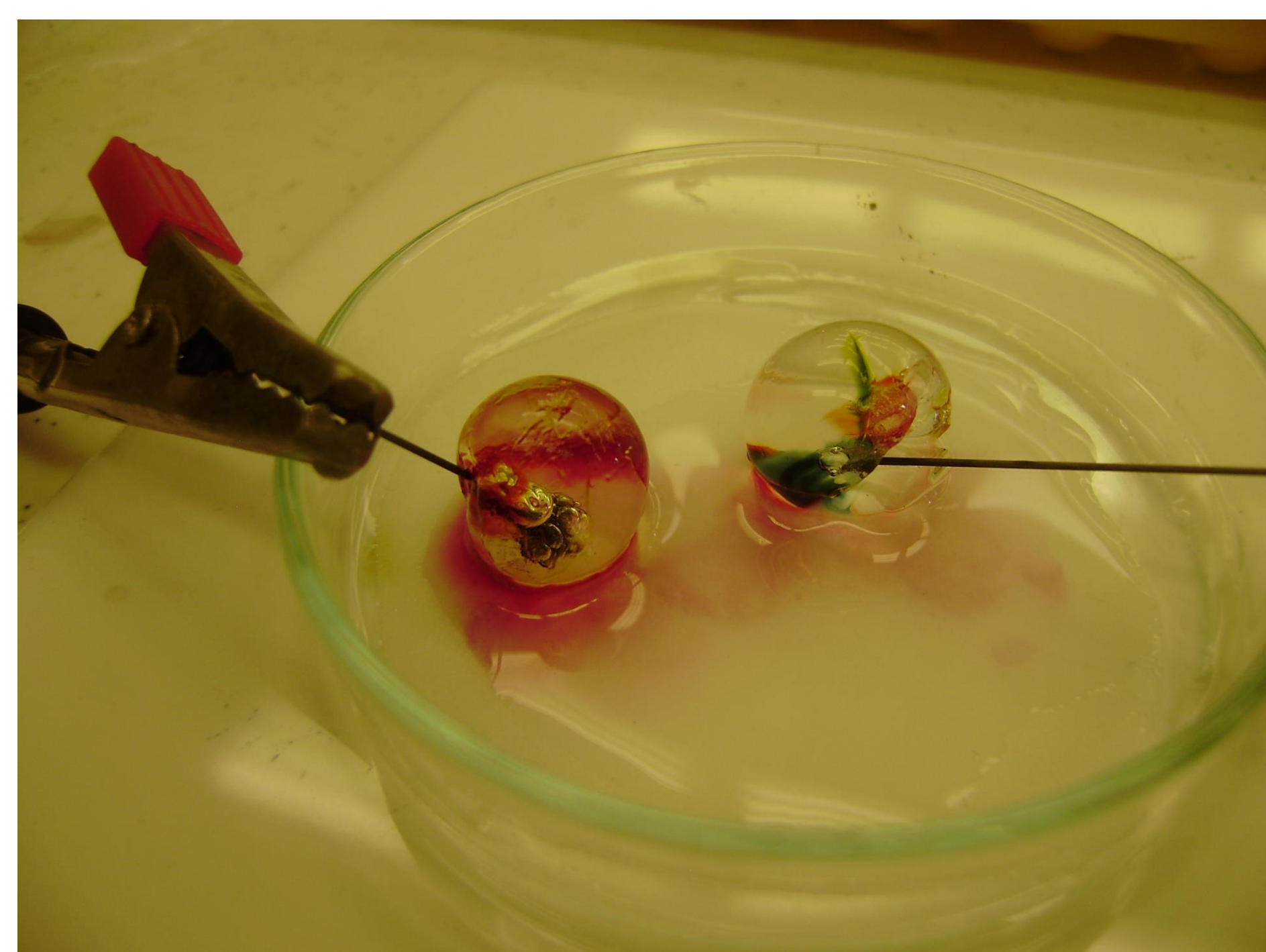
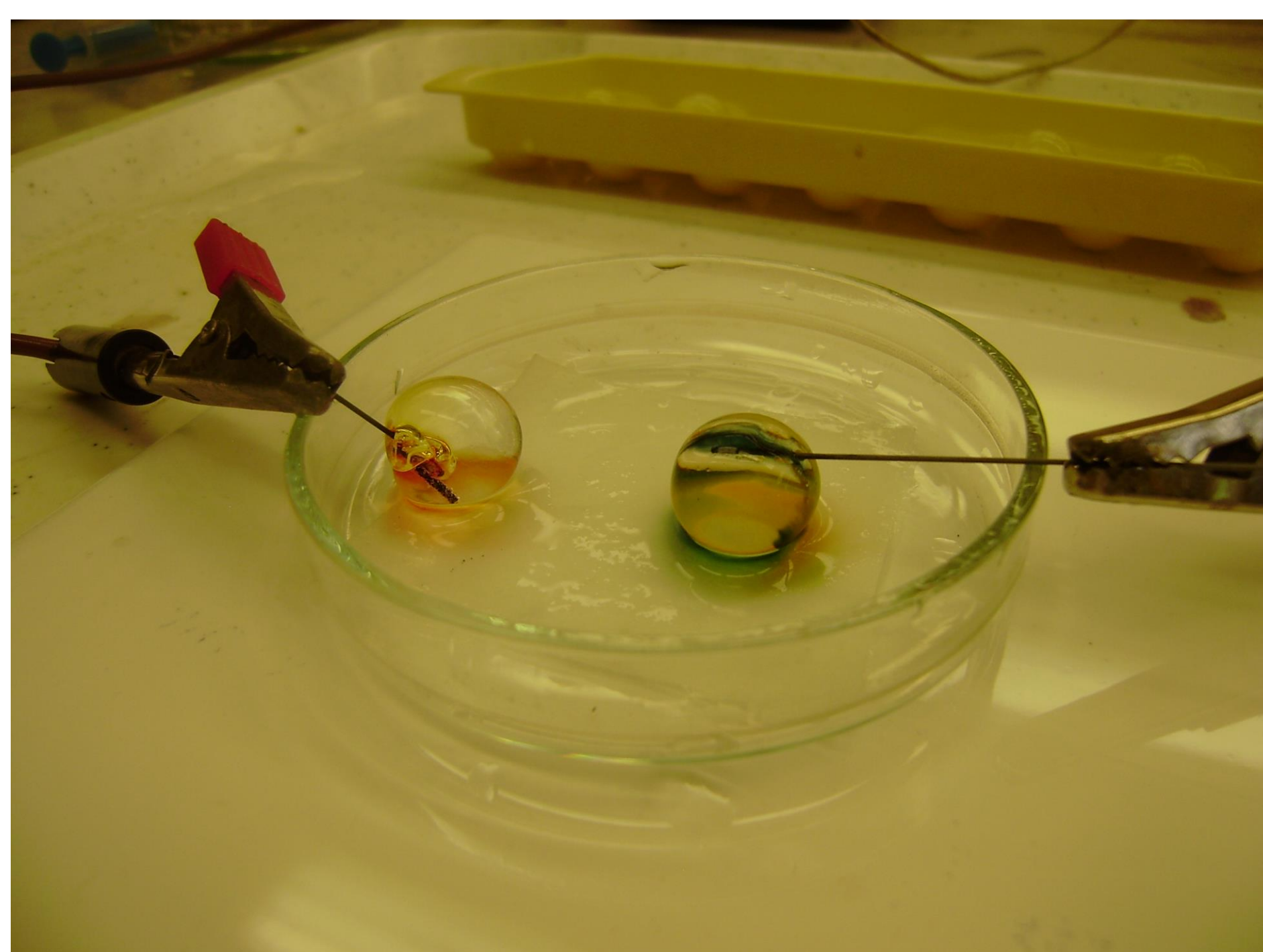
Microscale chemistry in the classroom

Electrochemical reactions in hydrogel balls:

The balls are placed on filter paper soaked with the electrolyte. The electrodes are graphite leads from a mechanical pencil. Using a Pasteur pipette some silver nitrate/zinc iodine/etc. solution is inserted into the hole in each hydrogel ball where the electrodes enter it.



Electrolysis of metal salt solutions (above) and electrolysis of water using universal indicator solution (below).



Apart from being spectacular, this way of carrying out experiments has the advantage of using less chemicals and thus producing less waste.