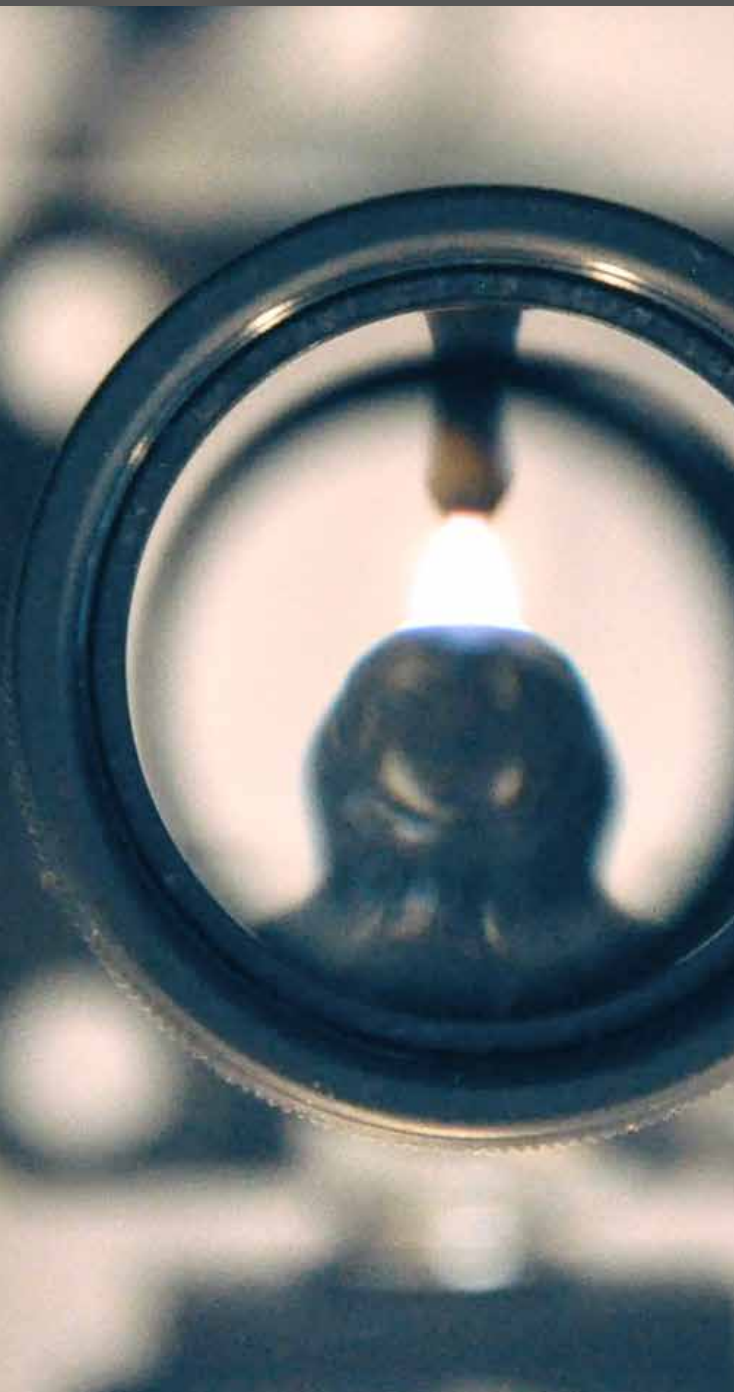


Solution Cathode Glow Discharge

Swerea KIMAB has developed an automated and portable instrument for online analysis of metals in liquids. The instrument has a great potential for monitoring process fluids and waste fluids and is very suitable for controlling secondary processes.



How does it work?

Swerea KIMAB has recently developed a portable instrument for inline analysis of metal containing liquids. The instrument, Solution Cathode Glow Discharge (SCGD), creates an electric plasma which sends out light specific for the solution and content.

Industrial benefits

The SCGD is very suitable for continuous analysis of process fluids, or drain fluids, and has the potential to supersede cost and time consuming laboratory analysis as well as controlling secondary processes.

Every day steel producing companies takes routine samples from which conclusions are made what amount of chemicals are added in different processes. Having a instrument that automatically can tell the dosage needed, as well as controlling it, would save substantial amount of money and in environmental impact.

Another industrial application that Swerea KIMAB has influenced with its SCGD is the ability to tell when a process fluid has lost its properties. By tell the operator to switch fluid in time could improve both the quality, finance and environment.

Key feature



Portable



Inline analysis



Automated

The three main key features with SCGD is its mobility, instant result from the in-line analysis as well as the fully automated system able to control secondary processes.

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