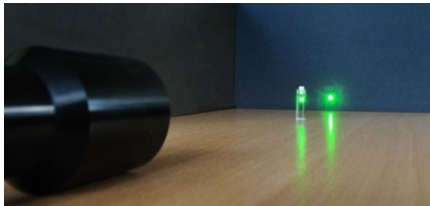
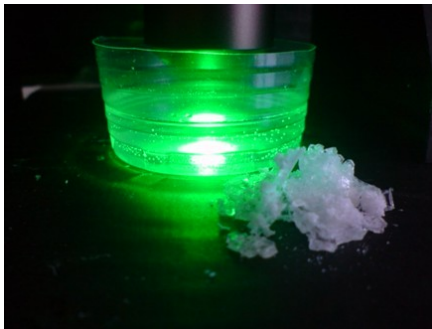


Salt concentration measurement device



An innovation that brings to you...

- ✓ **Rapid** (a few s), **non contact measurements** are possible
- ✓ **Low analytical costs** (simultaneous measurement of different salts)
- ✓ **Low maintenance costs**
- ✓ **Insensitivity to suspended matter**
- ✓ Possibility to perform **long range measurements on several samples in a row**
- ✓ **Precision:** of the order of a mg/L

How does it work?

The new process developed by the LMOPS laboratory of the University of Lorraine enables the **measurement of salt concentration in a product containing at least a portion of water**, with a Raman spectrometer. This technique **does not require to sample or touch the product**, whatever the product external conditions.

Different salts can be measured : chlorides, nitrates, sulfates, phosphates, acetates, formates, urea,..., **or a combination of them.**

What is it for?

- ✓ Salt concentration measurement for food industry
- ✓ Environment, water quality

Innovation availability...

- ✓ Patent FR2937421
- ✓ Collaboration sought: license for device manufacturing and distribution

A laboratory to accompany you...

This innovation was conceived at the **Laboratoire Matériaux Optiques, Photonique et Systèmes (LMOPS)** of the University of Lorraine. Their researches have applications in the domains of instrumentation, laser, optical and optoelectronic components, or even sustainable development.

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