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# Video is the future

In the world of science if you don't communicate your work, it is believed that you may as well have stayed at home! Nowadays, scientific research does not stay in the lab but tries to find its way towards the public. Various studies show more than half of companies are already making use of the medium – a figure that's predicted to rise as more and more realise the possibilities and by 2017, it is estimated that video will account for 69% of all consumer internet traffic.

[Page 12](#)**NEW SCIENCE VIEW SEMINARS**

## Communicate your research effectively

Workshops on science communication for researchers, graduate doctoral students, PR officers in research centers, institutes and universities, by Science View's experienced journalists and communicators, who give their professional advice in two (2) and three (3) day-long workshops focusing on science communication.

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## GREEK INNOVATION

# FOGII—Automatic portable and digital soil calcimeter

FOGII is a novel digital and portable scientific instrument for the measurement of "total carbonates" in soil samples where salt content excels overwhelmingly the "calcium carbonate". This novel instrument is created by BD Inventions P.C., a Greek startup that focuses on the research and development of prototype electronic instruments.



In soil, the calcium carbonate and magnesium carbonate, or a mixture thereof referred to the term "calcium carbonate". The measurement of calcium carbonate is an important parameter of Soil Science. Calcium carbonate plays an important role for soil structure and soil quality and significantly affects soil pH, cation exchange capacity and therefore, controlling many chemical reactions in relation to nutrient availability for plants and mobility of these elements in soil.

Since now, calcimeters, which are instruments that measure calcium carbonate used for research or quality control, are mainly laboratory glass arrays, and usually consist of Erlenmeyer flasks, test tubes, connecting tubes and stoppers. These instruments are usually referred to as 'Bernard' or 'Scheibler' calcimeters. Their main disadvantage is that the measurements can be time-consuming, they require approximate mathematical calculations and include errors because indications must be taken optical and instantaneously and estimated by the user, while not taking into account the reaction temperature. These calci-

eters are of questionable accuracy, bulky, difficult to use, of reduced mobility and of limited capabilities and features.

The major advantage of FOGII is the use of a multi-sensor, which combines simultaneous measurement of pressure and temperature. In addition to the measurement of temperature, the instrument has a built-in module for automatic temperature compensation in order to perform measurements with higher accuracy. The FOGII calcimeter is low cost, accurate, precise, automatic, rapid, reliable and easy to use. It has a wide range of applications and can be used by soil scientists, ecologists, agronomists, farm consultants, farmers, gardeners, poters, golf greens and sports pitches.

FOG II is patented from Hellenic Industrial Property Organisation (OBI) patent No GR1008089 with PCT Application Number PCT/GR2013/000048 & Publication Number WO2014060782 A1

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