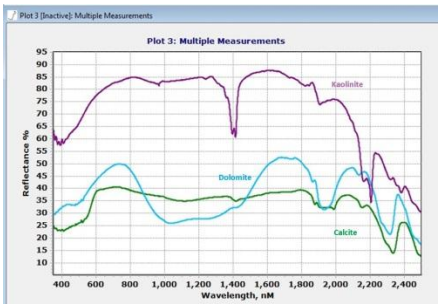

PRESS RELEASE

Identifying calcite, dolomite and clay in limestone

Using the oreXpress and EZ-ID to identify different minerals in limestone

Lawrence, MA – October 28, 2016 – Spectral Evolution's oreXpress™ spectrometer with EZ-ID software can provide critical real-time mineral identification in limestone exploration where it is important to distinguish between calcite, dolomite, and clays.

The oreXpress field NIR spectrometer with EZ-ID delivers two spectral libraries of over 500 minerals and 1500 spectra that include known samples for calcite, dolomite, and clays like kaolinite. By matching the spectra of your unknown field sample against those in the two libraries, EZ-ID can provide a fast and easy initial identification to help distinguish between calcite, dolomite and different clays.

The enhanced spectra collected by the oreXpress allow for more accurate identification of minerals that can look alike. With an oreXpress running EZ-ID mineral identification software, a clay like kaolinite can be easily identified by the doublets near 1400 and 2200 nanometers to clearly differentiate it from calcite and dolomite. Calcite and dolomite have very similar absorption features but with subtle differences that EZ-ID can highlight. Dolomite has absorption features at 1858, 1978 and 2320nm, while calcite has features at 1875, 1995, and 2330nm.

Quick and accurate mineral identification can provide geologists with a rapid way to see if a limestone deposit has the mix of calcite and dolomite that they are looking for. The oreXpress spectrometer delivers:

- Rapid data/spectra collection in the field
- High resolution/high sensitivity for accurate reflectance values
- Fast start-up and use with no optimization step required between scans
- Sturdy construction to handle field conditions
- Reliability with no moving optics and a robust metal clad fiber optic cable connector with easy-disconnect fiber

- A rugged and reliable mineral contact probe for single-click field measurements, for use in core logging shacks, and for use with chip trays

EZ-ID features:

- Fast and accurate identification of an unknown mineral to a known library sample
- Ease of use – just collect a target scan and see immediate match results in real time on your laptop
- Simple, consistent user interface
- Include or exclude spectral regions of interest for optimal results
- Fast scanning for optimum field work or core shack logging

With our Custom Library Builder software module, EZ-ID allows you to scan known samples and quickly build a custom library for a particular project, mineral, location, and more. You can select pre-defined metadata fields or define your own.

For more information:
http://www.spectralevolution.com/applications_limestone.html

About SPECTRAL EVOLUTION
Established in 2004, SPECTRAL EVOLUTION is a leading manufacturer of laboratory and handheld portable spectrometers, spectroradiometers and spectrophotometers. SPECTRAL EVOLUTION spectrometers are used worldwide for many mission-critical lab and field applications in mining, remote sensing, vegetative studies, ground truthing, environmental and climate studies, developing satellite calibrations, and more, due to their reliable, robust, rugged design and user-friendly one-touch features.

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