

# COMMODITY SERIES REPORTS PROJECT

## Bridging the Gap in Publications

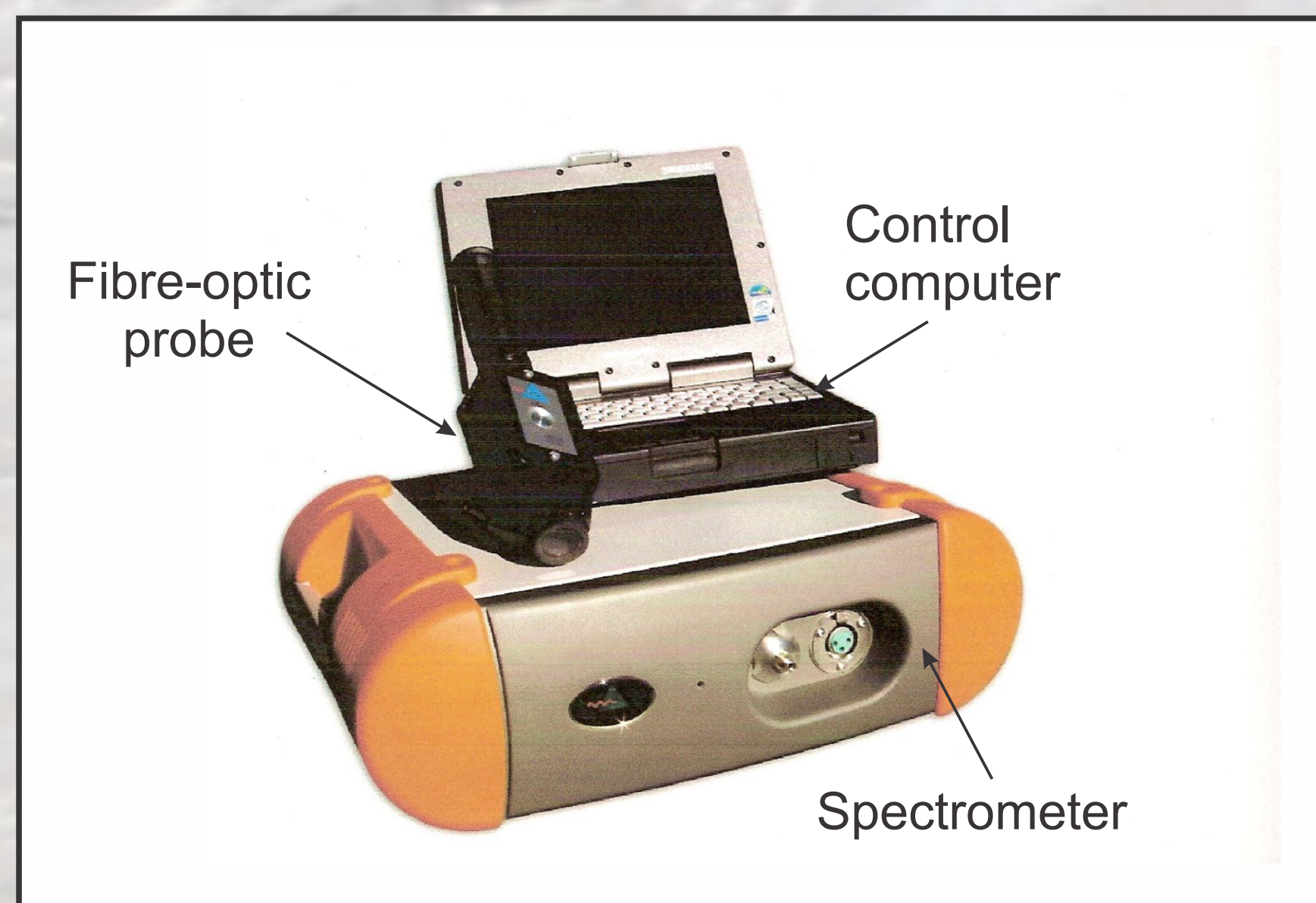
The *Commodity Series Reports Project* provides brochures intended as introductory technical publications that can bridge the gap between promotional literature and scientific material presented in *Current Research*.

The reports assist the exploration community, where they are aimed at senior-level technical staff responsible for project generation. They also have significant value as educational documents. In 2012, we were pleased to complete the report on iron ore, and in 2013 work was conducted on three more reports.

Our new reports on fluorite and barite essentially complete the series for commodities that have been produced in Newfoundland and Labrador. The next contribution to this series will be a report on molybdenum, tungsten and tin, for which several significant deposits are now known. Commodities to be covered in the future include gypsum, silica, and salt-potash.



# APPLICATIONS OF OPTICAL SPECTROMETRY IN RESEARCH AND EXPLORATION



The TERRASPEC spectrometer

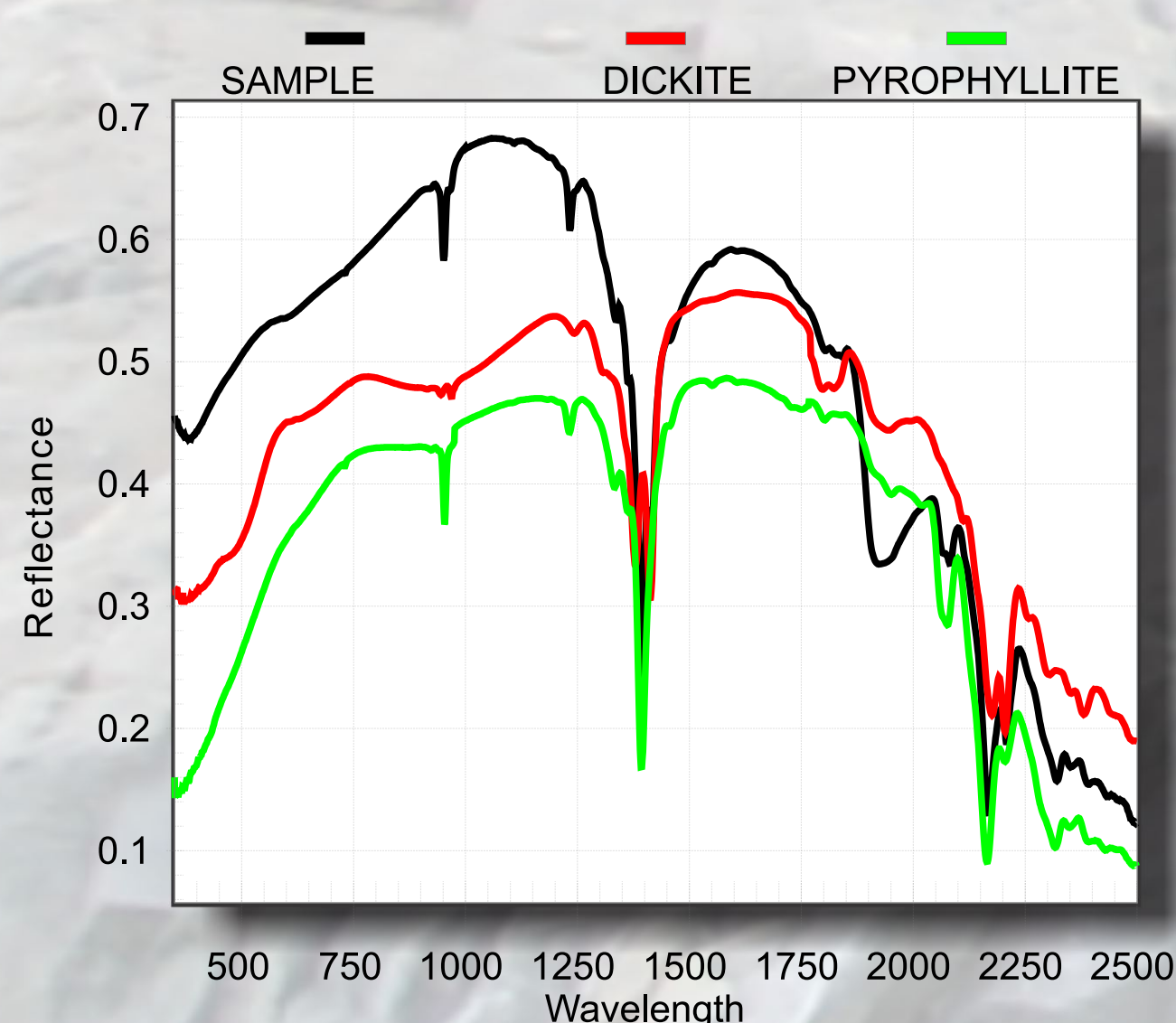
## Unravelling Alteration

Alteration patterns related to mineralization are critical in providing vectors for exploration and understanding deposit genesis. There is now growing industry use of visible / near-infra-red (VNIR) optical spectrometry to resolve alteration assemblages and map their distribution.

The spectrometer has added new dimensions to our projects. The instrument is currently being used on projects aimed at epithermal gold mineralization and volcanogenic massive sulphides, and also for mineralogical studies of iron ores.



Greg Sparkes using the TERRASPEC™ spectrometer.



Altered sample from epithermal gold mineralization at Rattle Brook, northern Burin Peninsula, showing the spectrometer identifications of key alteration minerals such as illite and dickite.

