Abstract
An electronic control system has been developed for a Raman spectrometer by using electronics based on microcontroller technology. With these microcontrollers it is possible to emulate control circuitry capable of performing complex tasks, such as the monochromator step motor control and the photomultiplier pulse count required in the Raman spectroscopy process. This approach could be used to give new life to valuable scientific instruments and tools. The Raman spectrometer control built is now fully functional and compatible with Windows 7. Raman spectra from well-known materials are presented to compare results and in order to confirm the proper operation of the developed control system.

Keywords
Raman spectroscopy, microcontroller control, Photomultiplier.