

# Spectroelectrochemistry



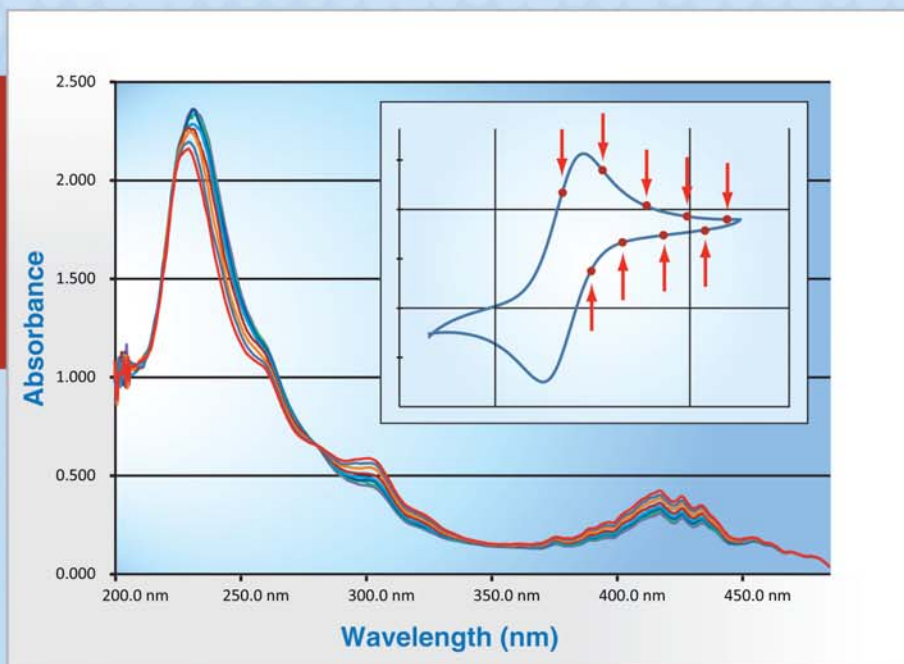
- Run spectroscopy and electrochemistry in synch using one software package.
- Analysis tools for easily plotting absorption at a given wavelength as a function of potential.
- Open source scripting to run the spectrometer.
- Fiber based spectrometers for easy reconfiguration for absorption/transmission, fluorescence/phosphorescence, Raman.
- Temperature compensation for ultra-low thermal drift.

## SPECTROMETERS COVERING:

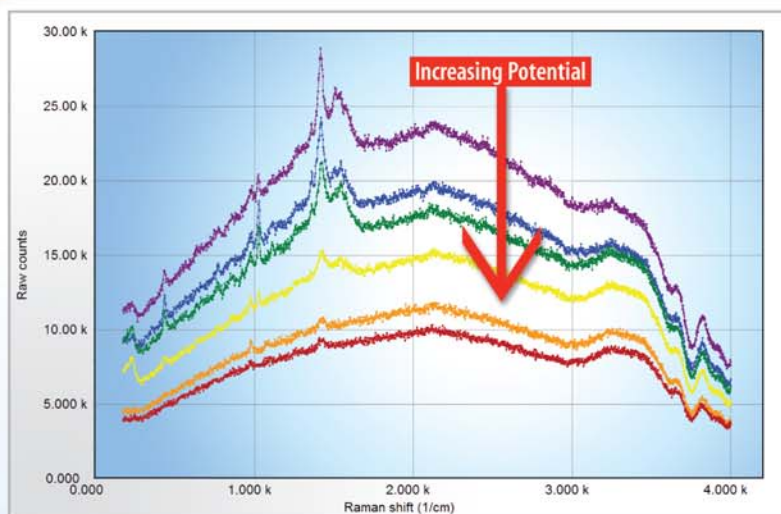
- UV/Vis (200-850nm)
- Vis/NIR (350-1050nm)
- Raman (532 or 785nm)

Absorbance spectra of 5 mM  $K_3[Fe(CN)_6]$  in 10 mM KCl at different potentials during a spectro cyclic voltammetry experiment.

Picture on top right shows the CV.



# Spectroelectrochemistry



*PEDOT/PSS Film as a function of potential.*



- The only commercially available Raman spectroelectrochemical setup
- Two different cell setups
- Raman shift coverage up to  $4000\text{ cm}^{-1}$
- Spectral resolution -  $3\text{ cm}^{-1}$
- Less than 7 lbs
- Thermoelectric cooled 2048 pixel CCD array

